THE CHEMIST AND DRUGGIST

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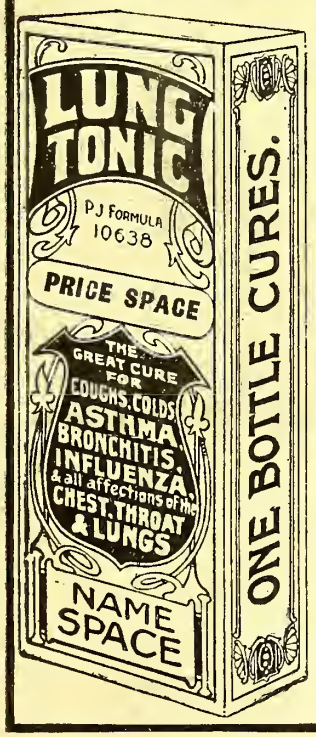

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OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu,

TONKA BEANS, Angosturas.

Phone— CITY 2468.

Telegrams— "EGDARF, FEN, LONDON."

Corvusine is well advertised and has a most ready sale.

By Appointment.

ORDER NOW TO MEET THE DEMAND.

OUR POLICY JUSTIFIED.

The enormous increase in the demand for **CORVUSINE D.G.** fully justifies our method in building a large factory at Grays, Essex, to enable us to increase our output. Corvusine D.G. (improved) gives sure protection against ROOKS, PHEASANTS, PIGEONS, and is a non-sticky preparation which

CANNOT CLOG THE SEED DRILL.

Pre-war Prices.

Size of Can.		Wheat, Peas, Beans, Vetches, Maize, Buckwheat.	Barley, Rye, &c.	Oats, &c.	Net Prices.
		Bushels.	Bshl.	Bshl.	£ s. d.
No. 1	Containing sufficient Corvusine to dress	16	14	12	0 4 6
No. 2		40	35	30	0 10 6
No. 3		80	70	60	1 0 0
No. 4		200	175	150	2 5 0

Other seed not mentioned in above table must be judged according to its absorbent qualities in comparison.

Our Trade Terms now include CARRIAGE PAID.

Write for advertising matter and liberal trade terms.

HAWKER & BOTWOOD, Ltd., Agricultural & Horticultural Chemists, **GRAYS, ESSEX.**

Once and for Always

Take out a POOL COMPREHENSIVE SHOPKEEPERS' POLICY and you have finished with insurance worries once and for always. No constant demands, worrying for payment No wondering if there is some risk that you have overlooked

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Next TEMPLE STATION, W.C. 2.

Funds Exceed £500,000 Founded 1890.

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QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
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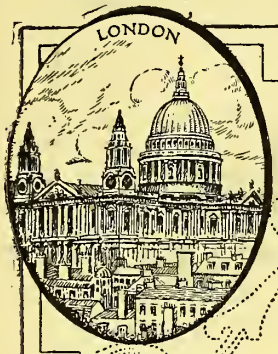

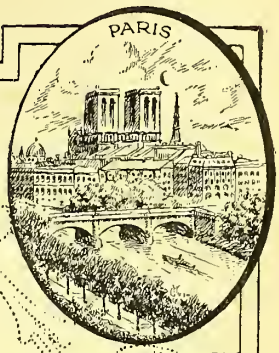

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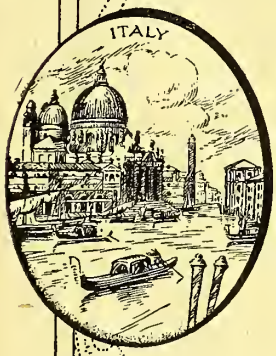

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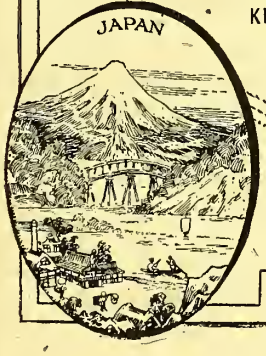

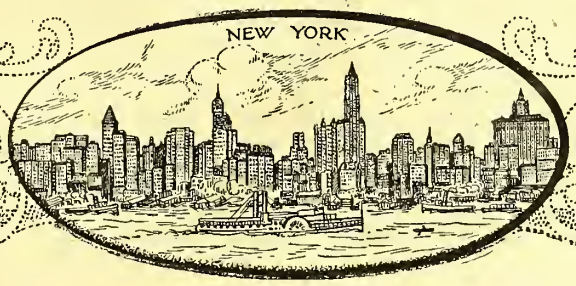

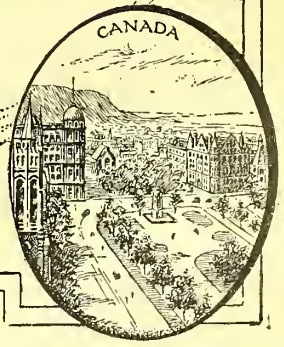

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GENUINE WHITE BEESWAX

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In ½-oz., 1-oz., 2-oz. and 4-oz. rounds.

PURE ENGLISH REFINED SPERMACETI.

HARD REFINED STEARIC ACID

WAXES of every known kind and for every purpose

The only actual Manufacturing Wax Chandler in the City of London.

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OFFICES, WORKS and SALE ROOMS:
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A Real PROFIT of 85·7%

LEONARDS' LIVER POWDERS (containing 12 powders per box), non-effervescent, strike a new note in such products. The above is a line on which we stake our reputation Therefore we know Leonards' Liver Powders will prove itself of great selling capacity. On every box, with bonus, you make a net profit of 8¼d. Act now, and lay in a stock. Solely protected under the P.A.T.A. From the Wholesalers, 10/6 per dozen boxes (each box contains 12 powders). For a 14 Days' Window Display One Bonus Box for every dozen ordered. Carriage free to your door.

Selling Price, **1/6** per Box, P.A.T.A.

Kindly address all Correspondence, Orders, etc., to Sales Dept.,

Leonards
MANUFACTURING CHEMISTS

ALBION HOUSE,
NEW OXFORD
STREET,
LONDON, W.C.1.

Telephone: Museum 3564.

Maw's Page

September 25, 1920. No. 467.

Christmas Gifts
that make
Regular Customers

THE "BIJOU" SET.

THE "STANDARD" SET.

Doubtless you have already considered the opportunity Christmas offers of effecting a temporary increase in your business. Have you also considered the opportunity it provides of making new and regular customers? This is by far the most important aspect of the question.

By carefully selecting the lines you will run as Christmas Gifts, it is possible to make the advantages of Christmas extend over the whole year. A large proportion of the temporary increase in business which Christmas brings can easily be made permanent. Do you select your Christmas lines with this object in view?

Here are two lines which embody all the essentials of the successful Christmas Gift—Taste, Luxury, Personality, etc., and at the same time will make regular customers of the recipients. They are two of the most popular lines of the "Parex" Manicure Methods Series.

The quality and efficiency of these manicure outfits ensure such complete satisfaction that every casual user becomes a devotee and a regular buyer of "Parex" Manicure Methods; and, remember, you must reap the benefit of repeat orders, because "Parex" Manicure Methods are supplied only to chemists.

The "Parex" Bijou Set.

Price ...	22/6 per doz.		Fixed Retail Price.
Not less than 1 doz.,	21/6	„ „	
„ „ „ 3 „	20/9	„ „	2/6
„ „ „ 6 „	20/0	„ „	

The "Parex" Standard Set.

Price, 84/0 per doz. Fixed Retail Price, 10/6.

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

REINDEER GLYCERINE

Ensure the quality & prompt delivery of your glycerine requirements for the coming season by making a contract now.

B.P. Standard. Prices and samples on request.

CHRISTR. THOMAS & BROS. LTD.
Distillers of Reindeer Glycerine, **BRISTOL.**

CHANGE OF OWNERSHIP

The business of TALBOT WILSON has been acquired from MESSRS. HOWARD STEVENS & CO., LTD. by MR. W. W. N. BEADON, Manfg. Pharmacist, and was legally assigned to him on August 7, 1920.

NEW AND MORE COMMODIOUS PREMISES

have now been obtained at the address given below, to which all communications should be addressed.

THE SALE OF

"Moovit" Corn Pencils

is phenomenal

A Chemist writes:—*"I must compliment you on the success of this article, its sale is PHENOMENAL, and I wish you every success —*

The last 6 dozen we sold in a fortnight!"

Are *YOU* participating in these quick and easy sales with accompanying

BIG PROFITS?

SPECIAL FREE BONUS OFFER FOR ONE MONTH

SPECIAL OFFER

On receipt of your order with cheque £5.14.0 we will send you carriage paid 1 gross "MOOVIT" CORN PENCILS together with a FREE BONUS of 2 doz. We will also supply striking windowbills and streamers to help your sales

We want the SMALL BUYER as well as the large, and to such we also make a special offer. Against cheque 30/- we will send 3 doz. "MOOVIT" CORN PENCILS together with a FREE BONUS of ½ dozen.

SPECIAL OFFER

STUDY YOUR PROFIT

Sell 14 dozen "Moovit" Corn Pencils at 1/3 each	- -	£10 10 0
Cost 12 ,, ,, ,, ,, ,, 9½d. ,,	- -	5 14 0
	PROFIT	£4 16 0

"MOOVIT" CORN PENCILS SELL THEMSELVES.

TALBOT WILSON CHEMICAL CO.

3 Kew Foot Road, Richmond, LONDON, S.W.

TABLETS *by* POST

PERFECTLY MADE.

GUARANTEED QUALITY.

DURING the past four years we have proved, to the satisfaction of thousands of Chemists at home and abroad, that there is a real need for a Cash Mail Order trade in Compressed Tablets of all kinds.

We have recently re-organised our Tablet Compressing Department and it now comprises one of the finest plants in the country; being worked entirely by electricity, perfect cleanliness is ensured. It is in charge of a practical operator of 20 years' experience in the Art of Tablet Making, and the Tablets turned out are in every respect second to none, irrespective of price.

Samples will be gladly sent of any line in which you are interested, and special quotation for quantities.

We give below a short list of Tablets which are in regular demand, but can supply all other kinds at lowest rates.

We also compress CUSTOMERS' OWN MATERIAL or make up Tablets from PRIVATE FORMULÆ at short notice; particulars upon request.

PER DOZEN SCREW-CAPPED BOTTLES CONTAINING:

	25's.	50's.	100's.	per pound	per 1000.
Aspirin grains 5	4/6	7/6	13/6	—	6/6
Bismuthated Magnesia	3/-	5/-	8/6	—	3/6
Calomel grains 1	3/3	4/6	7/3	—	3/-
Formalin and Mint	—	7/-	—	3/-	—
Formalin and Cinnamon	—	7/-	—	3/-	—
Phenacetin	8/-	14/-	26/-	—	18/-
Phenacetin and Caffeine	8/3	14/6	27/-	—	20/-
Phenolthalein grains 2	5/3	8/9	15/-	—	9/9
Pot. Chlor. grains 5	3/9	5/3	7/9	3/-	—
Soda Mints with American Mint	3/- for 30's		—	1/6	—
Sulphur with Cream of Tartar	—	—	—	2/3	—
Peppermint Lozenges with American Mint	—	—	—	2/6	—
,, ,, Multum in Parvo	—	—	—	3/6	—
Brompton Lozenges	—	—	—	2/6	—
Pine Tree Lozenges	—	—	—	2/3	—

SACCHARIN TABLETS, guaranteed	100's per doz.	200's per doz.	per pound.
½ grain 330 in 1	9/-	16/6	46/-
⅓ grain 330 in 1	7/-	13/6	34/6
¼ grain 330 in 1	6/-	11/-	27/6

Less a Quantity Discount on Saccharin of 6/- per gross, 1/- per lb. for 7 lbs. and 2/- for 14lbs.

Recent Unsolicited Appreciations—

"Greatly liked by all who use them. Customers say they are the best they have used."

"They are splendid in every way—nice shape, clean, and well made. I have sold a good many in the last four years. I have tried about eight different makes, and must say frankly that none have proved entirely satisfactory until I tried yours."

ASK FOR SAMPLES.

We are Proud of our QUALITY.

Terms:—Cash with Order, Carriage Paid on £2 value, Packages Free.

T. H. WALTON & Co. Ltd.,

Manufacturing Chemists,

BATLEY.

Telegrams: "Walton, Chemist, Batley."

Telephone: Dewsbury 640.

AYRTON'S WEEKLY PAGE 15

Throat & Chest troubles will soon be prevalent

Better look over your stock of the following seasonable tablet lines, and be prepared to meet the demand !

Iodised Throat Tablets

An excellent tablet for the prevention and cure of Sore and Ulcerated Throat, Quinsy, Tonsilitis, etc.

Formula—Tinct. Iodi. min. 1-5 ; Acid. Carbol. min. 1-10 ; Menthol gr. 1-30 ; Acid. Citric and Sacch. Alb. q.s.

Packed 50 tablets in screw-capped bottle, attractively labelled and cartoned. Name and address on orders for six dozen and upwards. Showcards with all orders.

Per dozen	7/-	Per gross	81/-
In bulk		per lb.	3/6

Formalin and Mint Tablets

These tablets disinfect the oral and nasal cavities, and should be freely used where infectious epidemics of Influenza, Diphtheria, etc. exist. They are highly recommended for Tonsilitis and Sore Throat.

Name and address on orders for six dozen and upwards.

In bottles containing	25	50	100 tablets
Per dozen	4/6	7/6	12/6
In bulk			per lb. 3/3

Pinettes

The real Pine lozenge, excellent for the Throat, Chest and Lungs.

Price, in bulk	1	7	14	28	56	112 lbs.
Per lb.	2/9	2/8	2/7	2/6	2/5	2/4

In tins containing approximately	$1\frac{1}{2}$ ozs.	3 ozs.
Per dozen	5/6	7/9
Per gross	63/-	90/-

Pinette Cartons and Envelopes free in proportion to order.

AYRTON, SAUNDERS & CO. LTD
Manufacturing Chemists LIVERPOOL

PASTILLE
POINTS—3.

The EFFICACY of EMULSION ANTISEPTIC THROAT PASTILLES (KERFOOT)

WE claim for Emulsion Antiseptic Throat Pastilles (Kerfoot) that they do everything a throat pastille can be expected to do.

In previous announcements on this page we have dealt with the externals of Emulsion Pastilles (Kerfoot), because the truth of our statements could easily be proved by personal observation. It is more difficult to demonstrate the efficacy of a pastille, so much depends on individual circumstances, but there is one unfailing criterion, viz.: Sales.

Emulsion Throat Pastilles (Kerfoot) have never been advertised direct to the public, and hardly ever to the trade, yet the demand for them has been continually on the increase for many years. This plain statement of fact is worth more as proof than any amount of theorising. Order to-day, price 3/3 per lb.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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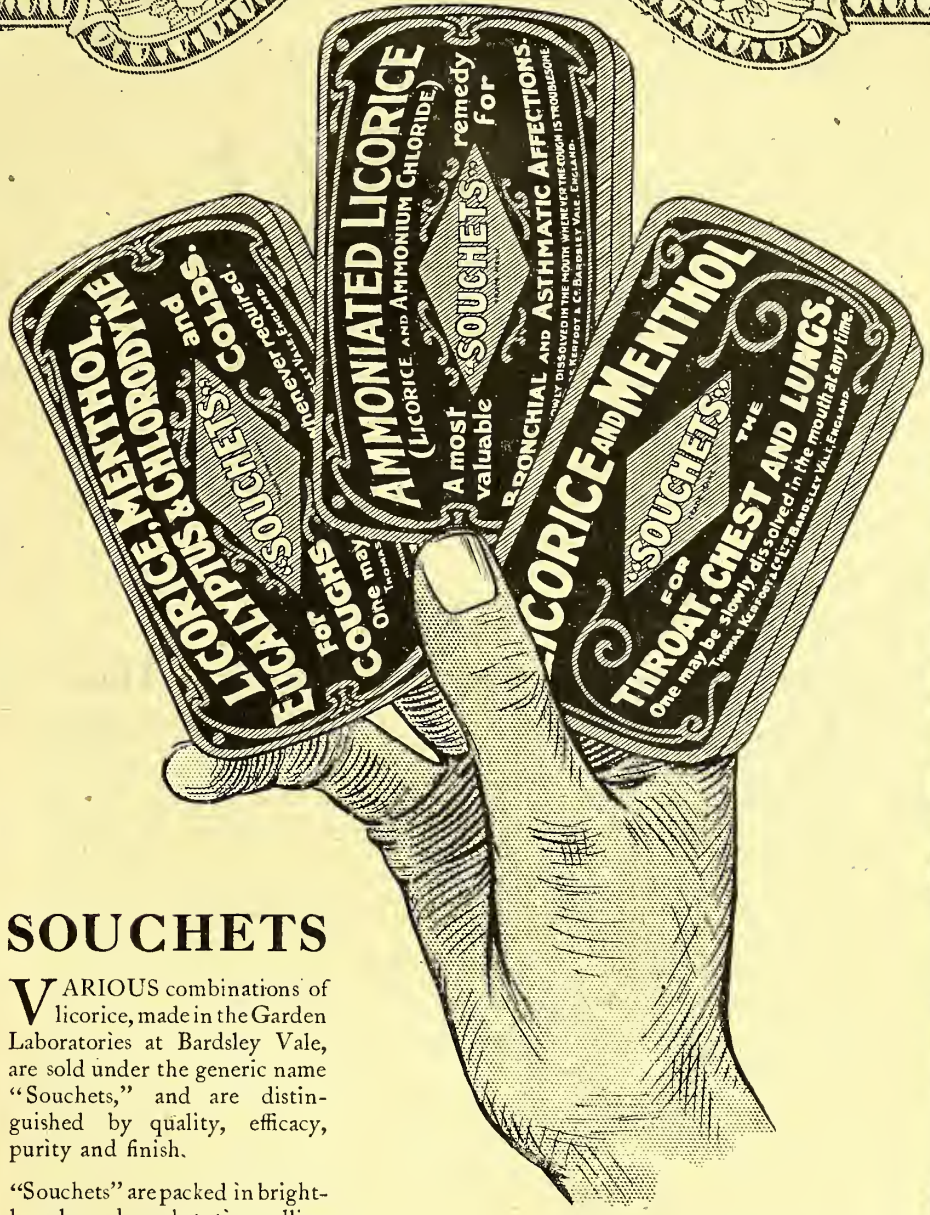

SOUCHETS

VARIOUS combinations of licorice, made in the Garden Laboratories at Bardsley Vale, are sold under the generic name "Souchets," and are distinguished by quality, efficacy, purity and finish.

"Souchets" are packed in brightly coloured pocket tins selling readily at 6d. (Trade price 3/9 per doz.) In bulk, price 5/- lb.

There is a different Kerfoot announcement in this paper every :: week, usually on page 17. ::

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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HOT STUFF!

CAPSICUM TISSUE

IN SMALL CARTONS.

Per **6/6** dozen. Your name on labels for order of 6 dozen

or in pound packets, per **5/-** lb.

Hot Water BOTTLE COVERS

Assorted Colours — Ripple Cloth.

4 STOCK SIZES. Others made to Order.

10×6 ...	**12/6** dozen.	10×8 ...	**15/-** dozen
12×8 ...	**17/3** „	12×10 ...	**20/-** „

We can also supply Hot Water Bottles, Ordinary Stopper or "Ronoleke." Prices on application.

London Office & Warehouse - 151-7 Goswell Road, E.C. 1.

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

CG&Co Ltd TRADE MARK

MAKE SURE OF YOUR SUPPLIES of

UNIVERSAL EMBROCATION

—The EMBROCATION with a REPUTATION.

A permanent Egg Emulsion of Turpentine, Acetic Acid and Methyl Salicylate.

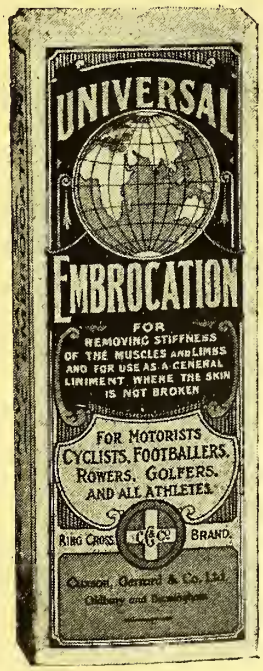
E 640. 4-oz. bottles, per doz. **8/6**

E 642. 4-oz. bottles, in cartons, as illustrated ,, **10/-**

Ditto per gross **117/-**

In bulk, **11/-** per gallon.

Gross quantities printed with customer's name.



Cuxson, Gerrard & Co.

LIMITED

OLDBURY, near Birmingham

Export and Colonial Inquiries Invited.

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

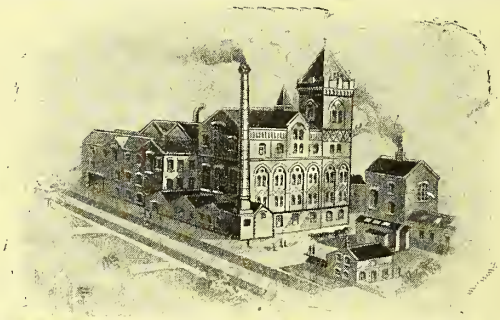
It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

"John  Bull" (REGD.)

MALT EXTRACT

and

COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

Bovril Bonus Scheme

The current Trade Bonus Scheme runs from 1st March, 1920, to 28th February, 1921, covering all purchases of Bovril and Invalid Bovril made between these dates.

Customers who wish to participate, but have not yet intimated their intention to do so, should *at once* write to the Company for full particulars and an entry card.

Window bills for display in connection with the scheme will be posted to all participants early in October. It is expected these will be displayed immediately after receipt.

The demand for Bovril is still steadily increasing, and Retailers are advised to place early orders for stock for the coming Winter.

BOVRIL

BOVRIL, LTD., 148-166, Old Street, City Road, London, E.C.

THE ACID TEST

Tabletting for the Trade

For Export, and for the Home Trade in Quantity

THE most scientific and up-to-date machinery under control of an expert staff is at the buyer's service.

We specialise in tabletting to clients' private formulæ.

The superiority of our tablets is acknowledged — in perfection of finish, accuracy of contents, complete solubility.

With the resources we command we have reduced the cost of production to a minimum, and our prices will be found to be the lowest possible compatible with the highest quality.

Put this statement to the test by comparing our prices and examining our samples.

Prompt deliveries guaranteed.

Issued from the Laboratories of

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF, & BELL WHARF,
LONDON, E.1.

Telegrams:
"Refreshing, Cent, LONDON."

R. J. REUTER

(Established 1892)

Telephones:
Central
4461 and 4462.

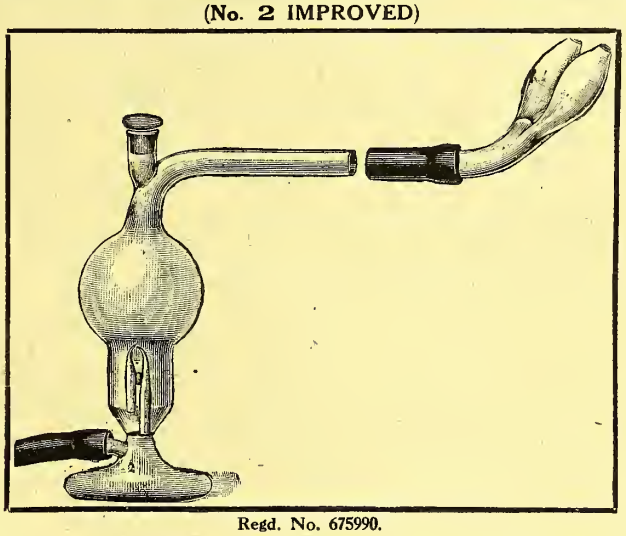
Head Office: **69 CARTER LANE, LONDON, E.C.4.**

Our Latest Production.

THE ARISTON ALL-GLASS NEBULATOR.

(No. 2 IMPROVED)

For NOSE or THROAT.



Will Nebulize the Heaviest Oils.

Regd. No. 675990.

Price - - 72/- dozen. Usual Discount.

STRONG SOLUTIONS OF ACTIVE DRUGS which in the ordinary way are irritant, can be safely prescribed for application through the Ariston No. 2 Nebulator, ***as the Vapour is evolved in the finest possible state of Sub-division, and may be inhaled into the Lungs direct if desired.***

WE ARE SOLE MANUFACTURERS OF

THE ARISTON No. 1 ALL-GLASS CLOUDIZER.

For Nose or Throat - - - **48/-** dozen.

"VĒVAX" FOLDING ALL-GLASS POCKET ATOMIZER.

For Nose or Throat - - - **51/-** dozen.

The most useful ordinary Atomizers extant.

ALL-GLASS . . . . SPRAY PRODUCERS
Will vaporize Oils or Water.

The "ALPHA"	For the Throat	**48/-**	doz.
The "OMEGA"	For the Nose	**48/-**	doz.
***The "PARVO"**	Miniature Spray	**48/-**	doz.

(*For expensive solutions in small quantities.) Usual Discounts.

Factory:
Queen's Buildings,
Elliott's Court,
Old Bailey,
E.C.

The Pharmacist who holds complete stock of above lines is always in a position to fulfil the requirements of either medical man or patient for any kind of Spray Producer, Atomizer or Nebulizer at a moment's notice.

Scientific Glass Blowing Works:
31 St. Ann's Chambers,
E.C.

NESTOR MOURANCHON.

Offices: 40 Rue Damremont, PARIS. Telegrams: "Barthgay Paris." Telephone: Marcadet 15/92.
Distilleries and Laboratories: Chateauneuf-Val-St.-Donat (nr. Grasse), and Romans (Drôme).

SPECIALITIES: Menthes, Neroli, Petitgrain, Patchouli, Otto of Rose, Violet Essence, Gant de Saxe.
"ESSENCES DE MONTAGNE" and Imported Products.
Lavender, Aspic, Thyme, Girofle, Badiane, Geranium, Ylang Ylang, Musk, Ambre.

PRICE LIST ON APPLICATION TO WHOLESALERS ONLY.

Sole Agents for British Isles and Colonies:—

A. BREZET & CO. LIMITED,

19 ST. DUNSTAN'S HILL, LONDON, E.C. 3.

Telephone: Avenue 3543. Telegrams: "Abrezical, Phone, London."

PURE ESSENTIAL

OIL OF HOP.

Singly and fractionally distilled.
HIGHEST CONCENTRATION AND PURITY GUARANTEED.
Prices, samples and information from the distillers:—
WHITE, TOMKINS & COURAGE, LTD.
HEAD OFFICE:
48 Mark Lane, LONDON, E.C. 3.
And at
LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

Orisal Regd.

The successful Remedy for PYORRHŒA.
Prescribed by the Dental Profession.

PRICES.

Wholesale (including Government Duty)			Retail
Dental Paste	**22/-** per doz.	,, 6d. ...	**2/6** per tube.
Mouth Wash	**44/-** ,,	,, 1/- ...	**5/-** per bottle.
Special Brush	**24/-** ,,	... ...	**2/6** each.

Of Wholesalers, or direct from
ORISAL Ltd., 77 George St., Portman Sq., W.1.

CHLOROPHYLL C.

Fast to Light and Acid—Absolutely Pure. Guaranteed to be of uniform concentration and shade, and to give an entirely clear solution.

The Sandoz Chemical Co., Ltd., BRADFORD.

PREEMO

Concentrated Essences, Floral Ottos and Compounds

TIME IS MONEY TO THE BUSY CHEMIST

and it is just for this reason that Preemo Essences, etc., have such a big sale amongst the progressive and most prosperous members of the trade. With Preemo Essences you cut out all unnecessary and time-wasting operations when making your Perfumes and Toilet Preparations. All distilling, filtering, blending, etc., are dispensed with, as the Preemo Products are expressly made for Toilet Preparation Manufacture and are ready for immediate use. No other Essences are so simple to use, so easy to mix, or give such delightful and economical results.

SEND FOR FREE SAMPLES.

Preemo Concentre and Essential Oil Co.,
63 HIGH HOLBORN, LONDON, W.C. 1.
Telephone—HOLBORN 3095.
32 RUE DE MONTENOTTE, PARIS.
Telephone—WAGRAM 27-35.

Have your Toilet Lanoline in a properly finished tube this time.

CATARRH JELLY in long nozzle colour enamel tubes

PILE OINTMENT in long nozzle colour enamel tubes

OFFICIAL OINTMENTS in colour enamel tubes

TOOTH PASTES AND TOILET CREAMS in colour enamel tubes.

IN ALL CASES your name and address a part of the colour enamel decoration.

The paper label gets very greasy and objectionable, whereas MACLEANS decorated tubes with your name and address a part of the colour enamel decoration keep clean and creditable to the final squeeze.

The Lanoline is a perfect preparation.

MACLEANS perfect products in perfect tubes cost you no more.

6 Spring Street, LONDON, W. 2.

Macleans Limited

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE
GERANIOL
CITRAL
EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.

SPINELLI
The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that theyhave entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

PEPPERMINT OIL
(NEW CROP)

"FLOR MINT"
BRAND.

Distilled by LOUIS RAISSAC

Proprietor of the

Montagne Noire

Plantations and Distilleries at

Revel & Toulouse,
FRANCE.

Sole Agent for the U.K.:

C. A. CHARPENTIER,
75 Great Titchfield Street, LONDON, W.1.

Telephone: Museum 6412.

Telegrams: "Synthetoli, Wesdo, London."

ROSE SUPRÊME DE FRANCE.

A New Perfume, designed to meet the requirements of Pharmacists preparing their own Powders, Creams and Toilet preparations in general.

Of fine quality and constant strength, it will be recognised by the trade to be the perfume of the year.

Prices & Samples from the Manufacturers—

R. LANE-HALL & CO., LTD.
1 STEWARD STREET,
LONDON, E.1.

"HEADQUARTERS"

SPANISH ESSENTIAL OILS

LARGE STOCKS

RIGHT PRICES

EVERY KIND.
PRICE LIST GLADLY SENT ON APPLICATION.

LONABARC TRADING CO., LTD.
5 FINSBURY SQUARE, LONDON, E.C. 2.
Telegrams: "Lonabarc, Finsquare, London." Telephone: Clerkenwell 2096.

RESTUCCIA'S
Pure Sicilian Oils.

LEMON
ORANGE
BERGAMOT

Finest quality with a world-wide reputation.

THE
CITRUS BRAND and MANUFACTORY
(G. A. RESTUCCIA, Manager)
MESSINA - - ITALY.
(Established 1860)
LONDON AGENTS:
J. ALEXANDER & PRICE, Ltd. - 5 Idol Lane, E.C. 3

OILS
IN CASES OR BARRELS

Peanut — Soya Bean
Maximum 2% Acidity
Linseed — Rapeseed
Peppermint — Cocoanut

POTATO STARCH
(Farina)
VEGETABLE WAX
INSECT POWDER
CAMPHOR, REFINED

We shall gladly quote by cable, c.i.f. any port in the world.

Our firm is entirely owned and operated by British and Americans.

THE MUTUAL TRADERS
24 NAKAYAMATE-DORI, 2 CHOME,
KOBE, JAPAN.
Cable Address: "SIMSLAND."
(8)

FIRST ANNIVERSARY OCTOBER 1st, 1920.

One year's trading has amply proved the saleability and popularity of "Rosine" and "De Luzy" lines. We have opened hundreds of valuable accounts. There is hardly a district in the U.K. where they are not obtainable. During our second year of trading, advertising matter will be strengthened—advertising will be increased. Space has been booked already in

VOGUE, FEMINA, EVE, DELINEATOR, WOMAN'S SUPPLEMENT, DEBRETT, WINDSOR MAGAZINE, PAN, NASH'S MAGAZINE, LONDON MAIL, ERA, STAGE, PATRICIAN, SKETCH, SMART NOVELS, DAINTY NOVELS, etc.

WRITE TO-DAY AND INVESTIGATE THE POSSIBILITIES OF OUR LINES.

NO XMAS DISPLAY SHOULD BE WITHOUT THEM

Sample ranges to any value willingly sent on approval.

CHEZ POIRET (illustrated) - - **28/6** *less* 33⅓%

"Rosine" Series comprises 20 other lines retailing from 21/- to 63/-

CHYPRE (DE LUZY) (illustrated) **16/6** *less* 33⅓%

Ambre and Origan, same price ; - small **5/6** *less* 33⅓%

LES FLEURS (DE LUZY) Rose, Violette, Jasmine, etc. - - - - **14/6** & **5/-** *less* 33⅓%

W. H. CALNAN & COMPANY,

30-32 LUDGATE HILL, LONDON, E.C. 4.

On the List of Government Contractors

TRADE MARKS.

Telephone No. 1831 HOP.
Telegraphic Address: "Eklips London."
"A B C" Code, 5th Ed.; and Lieber's.

AWARD: LONDON, 1881—"For Excellency of Quality."

H. E. STEVENSON & Co.

Emulsion Specialists and Manufacturing Chemists,
122 GREAT SUFFOLK STREET, LONDON, S.E.1.

Mr. STEVENSON was for many years a Director of BAISS BROTHERS & STEVENSON, Limited.

1880 **1920**

COD LIVER OIL EMULSION

"4 Medals" Brand.

THE SUPERIORITY OF OUR EMULSION

is largely due to the special base used, the result being a creamy, palatable and inseparable preparation, readily taken by children, and remaining unchanged for years. We have samples, eight years old, showing only slight separation even after this lapse of time.

Present Prices subject to fluctuations. Cartons extra.

COD LIVER OIL EMULSION WITH HYPOPHOSPHITES 33%

4,	6,	8,	12,	16,	24,	32 oz.
9/6	**11/6**	**14/6**	**20/-**	**26/-**	**36/-**	**48/- per doz.**

PARRISH'S SYRUP.

Made from white Cane Sugar and purest Phosphoric Acid by an original process, this Syrup is free from silica and any "inky" taste. We shall be pleased to hear from buyers of 2 cwt. and upwards, either in bulk or packed in 4-oz. and 8-oz. coloured cartons.

Special quotations for quantity.

SILKODONO for the HAIR & SCALP

RETAILERS of SILKODONO who are giving Special Window and Counter Displays of this splendid New Hair Remedy report that it is selling exceptionally well—and their repeat orders prove it.

Our Advertising Display Material consists of THREE STRIKING SHOWCARDS which are beautifully printed in 14 colours; DUMMY CARTONS of distinctive and attractive make-up, and INSTRUCTIVE BOOKLETS on SILKODONO Hair Culture for Men, Women and Children.

LANTERN SLIDES of the SILKODONO Showcards may also be had bearing your name and address on condition that they are shown in Music Hall, Theatre or Cinema for three months.

Send us your order to-day for a supply of SILKODONO and we will send you all these powerful "Selling Aids" Free of Charge.

Please note the more than generous Bonus Terms quoted in this advertisement for those ordering during September.

Wholesale Terms with Special Bonus for Sept.

1 dozen 2/6 size ... 20/- BONUS One Extra Bottle. This gives you a profit of 12/6, i.e. over 60%	3 dozen 2/6 size ... 60/- BONUS Six Extra Bottles. This gives you a profit of 45/-, i.e. 75%
1 dozen 4/6 size ... 36/- BONUS One Extra Bottle. This gives you a profit of 22/6, i.e. over 60%	3 dozen 4/6 size ... 108/- BONUS Six Extra Bottles. This gives you a profit of 81/-, i.e. 75%

Manufacturers—

SILK'S TOILET CO.

Red Lion Street, Holborn, London, W.C. 1.

Telephone: Holborn 3095. Telegrams: "Silporanob, Holb, London."

The Name that Sells.

TRADE PYREA MARK

"Pyrea" Astringent Lotion ... 5/-
"Pyrea" Tooth Cream (Large) ... 1/6
"Pyrea" ,, Powder ... 1/6

APPLY FOR DISTRICT AGENCIES.

EXCEPTIONAL TERMS.

"PYREA" Co., 31 Gt. St. Andrew St.

Telephone: 4087 Gerrard. LONDON, W.C. 2.

"THAT 'DAILY MAIL' BILL MAKES PEOPLE STOP & TAKE NOTICE

and more often than not gets them up to the counter." That's the opinion of a South London chemist. It tells in a nice way why our young people go grey, and incidentally helps the sale of that wonder-working hair preparation, "Quin-Quenna." Let us send you a bill—it can be affixed in less than thirty seconds.

WILL YOU LET US SEND YOU AT ONCE JUST

two boxes, each 6-doz. 6d. packets, and accept two dozen bonus, "Daily Mail" bill, showcards, wrappers and other advertising aids? The carton is so attractive that it will grace any counter. Sales are sure, so are profits.

4/ PER DOZ. PROFIT 43% P.A.T.A. EACH 6d.

AND IT'S CONSTANTLY ADVERTISED.

Quin-Quenna

BETTER THAN A SHAMPOO

THOS. CHRISTY & CO.
4/12 Old Swan Lane, E.C. 4.

Violiv

120% Profit

You know the ready market there is for Toilet Preparations *of quality*. Here is the latest addition to the VIOLIV family.

Violiv

Cocoanut Oil SHAMPOO

This Shampoo Powder has been prepared to take the first place in Shampoos.

The large Advertising Campaign now proceeding throughout the country is educating the Public to the new use for Cocoanut Oil — including YOUR customers—so that you must be prepared to meet the demand.

VIOLIV is first in the field at popular prices.
It retails at 3d. per packet.
It is the best paying line on the market, as
it yields a profit of 120%.

To further induce interest, and help you, we are making a Special Offer on orders for seven days. Write for particulars to-day.

Sole Agents—

PATTINSON & MACKIE, Ltd.
Albion House,
59 New Oxford St., London, W.C. 1.

Manufactured by the Violiv Manufacturing Co., Edinburgh.

What is YOUR Window?

Is it an asset—or is it an *excuse* for display ?

The display window should be reckoned on as a silent partner in your business.

It is to you—a solus position. Everything placed therein is your advertisement to the public as to what you have to sell—the service you have to offer.

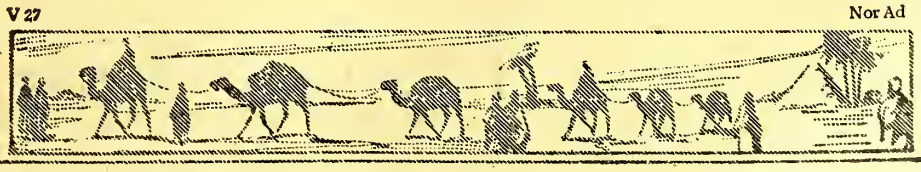
The more study and attention given to the window means more attractive displays—more attention from the public —and more business.

Try it — you can easily measure the value of a "live" window — your till will tell !

Violiv have many "selling" helps for retailers — always ask for them when sending your order.

Our service is at your service.

V 27 Nor Ad



WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window / Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

There's 'Good Business' in

Pasttella

Pearle Poudre *gives minimum profit of* **53%** *on outlay*

and

Nail Poudre *gives minimum profit of* **55%** *on outlay*

Sole Distributors,
F. NEWBERY & SONS LD 27-28, CHARTERHOUSE SQ. LONDON, E.C.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz, 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

EASTERN TRADING Co. Ltd.

St. Giles, Salisbury.

Importers of Face or Powdered Paper.

Stocked in Rouge, White, Pink and Natural.
Cases of 50 reams. 96 sheets per ream.
Rouge, 11/-, other colours 8/- per ream, *ex* store London.

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

The Popularity of "Harlene Hair Drill."

EVERY DAY EMPHASISES THE NECESSITY FOR MEETING THE PUBLIC DEMAND.

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties and increasing expense, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.

NOTE—The Contents of the Free HARLENE OUTFITS comprise:

1. A Trial Bottle of Harlene.
2. A "Cremex" Shampoo Powder.
3. A Trial Bottle of "Uzon" Brilliantine.
4. Book of Instructions.

FOLLOW THE TIDE OF SUCCESS.

Watch the Great Free Gift Advertising Campaign that brings the Customers to your Shop.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?

No Chemist or Store can afford to be without
: this unique line of Toilet Preparations :

"HARLENE" FOR THE HAIR
"UZON" BRILLIANTINE
"CREMEX" SHAMPOO POWDERS
"ASTOL" FOR GREY HAIR
"ASTINE" VANISHING CREAM
"ASTINE" TOOTH CREAM
"ASTINE" SHAVING STICK
"ASTINE" NAIL CREAM

For Particulars, Terms, &c., write to

EDWARDS' HARLENE, Ltd., 20, 22, 24 & 26 LAMB'S CONDUIT STREET : LONDON, W.C. 1.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Ingram's Milkweed Cream
,, Velveola Souveraine (Face Powder)
,, Zodenta Paste for the Teeth
,, Rouge, Light, Medium, Dark
,, Perfume, 1 oz. assorted in fancy packages

100 Guest-Room Packages free.

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

Daggett & Ramsdell's

PERFECT

COLD CREAM

On the P.A.T.A.

Always Selling

Always Satisfies Customers

Yields a Good Profit

From all Wholesalers, or direct from the Sole Agents

The A.D.S. Co.

6 Northumberland Avenue, London, W.C.2

Jewsbury & Brown's

MANCHESTER,

Non-alcoholic Cordials

Dental Preparations

WHOLESALE AGENTS:

For London, Home, Eastern and Western Counties
ROBERT W. PHILLIPS, Ltd.,
Craven House, Kingsway, LONDON, W.C. 2.

For Scotland:
KERR, PATON & CO.,
217 St. Vincent Street, GLASGOW.

For South and Mid-Wales:
THE STRETTON HILLS MINERAL WATER CO.,
CHURCH STRETTON, Shropshire.

ERASMIC TOOTH PASTE

stands alone as the most delicious and fragrant of all Dental Creams.

It is the most effective Tooth Cleanser, beautifier and preserver.

SPECIAL BONUS OFFER
for Window Display.
PLEASE WRITE FOR PARTICULARS.

ERASMIC - Perfumers - WARRINGTON

TOILET PREPARATIONS

TREVONA REGD
PURITY AND RELIABILITY

OF QUALITY

TRY TREVONA TRADE. ✻ FOUR RELIABLE LINES.

HIGH-CLASS PRODUCTIONS.

ORIGINAL FORMULÆ
PUREST INGREDIENTS
CHARMING PERFUMES
ARTISTIC PACKING
REASONABLE PROFITS
EFFICIENT SERVICE.

ATTRACTIVE —— DAINTY.

P.A.T.A. PRICES.

	Retail.	Wholesale. DOZ.
TREVONA Toilet Powder Delightful and antiseptic. Sprinkler-top tin.	1/9	14/-
TREVONA Dental Powder Pleasant antiseptic, cleansing deodorant, large tin in carton.	1/3	10/-
TREVONA Shampoo Powders The Ideal Hair Wash. 4½d. each. Box of seven	2/3	18/-
TREVONA Floral Bath Powder Highly concentrated. Fragrant and refreshing.	2/3	18/-

DISCOUNT :— 5% on 3 doz. assorted.
10% on 6 doz. assorted.
MONTHLY A/c :— 2½% Cash Seven Days.
CARRIAGE PAID.

READ THE TERMS. ✻ PROFIT 70 % ON COST.

TELEPHONE: HOP 5959.

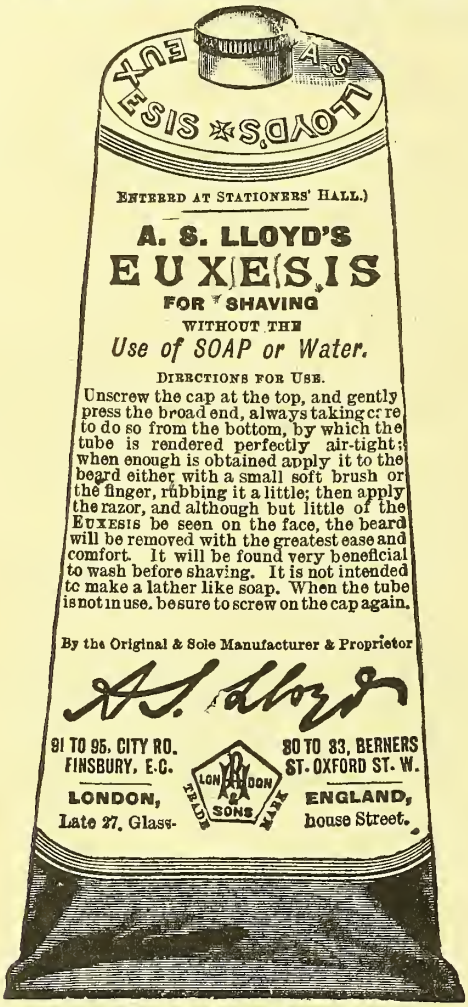
C.R.OLVER & Co.,
97, UPPER KENNINGTON LANE,
VAUXHALL, LONDON, S.E.11.

TELEGRAMS: "OCREVLORC VAUX, LONDON"

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

To Satisfy your Customers Is to Increase your Business

LINARIS TOILET PREPARATIONS

(1) Give absolute satisfaction—Guaranteed
(2) Are prepared from the finest Drugs obtainable.
(3) Show splendid profits to the Retailer.
(4) Invariably bring repeat orders.
(5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

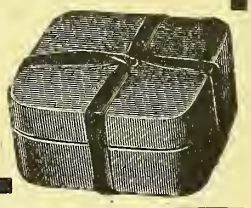
LINARIS Vanishing Cream
LINARIS Bath Powder
LINARIS Henna Shampoo Powder
LINARIS Camomile Shampoo Powder
LINARIS Massage Cream
LINARIS Tonic Cream
LINARIS Beauty Cream
LINARIS Face Powders

Profit of over **33⅓%**

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)
31 Westbourne Grove, London, W.2

Carriage paid on all orders over £5.



FOR LARGE BUYERS.

TOOTH POWDERS

ALSO

Dental Creams, Vanishing Creams, Shampoo Powders, Pomade Hongroise, Brilliantines, Dry Shampoo (Liquid), Bay Rhums, Toilet Paraffins, Lime Creams, Shaving Sticks, and all Toilet Goods.

LOW PRICES for HIGH QUALITY.

C. A. STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—A. S. Lloyd in Black Ink, and that of his Widow, Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO.**

23 PANTON STREET (formerly named Spur Street), HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

Perspiration Troubles

LET US SEND YOU BUSINESS

There is a growing demand for Dulc-o-do, the toilet water which *corrects* excessive perspiration and obviates the use of dress shields. A doctor writes: "*I find it a splendid preparation.*"
Send 20/- for a trial dozen 2/6 bottles and showcards, your name will then be placed on our depot file and all future inquiries from your district will be directed to you.

Dulc-o-do

Corrects Under-Arm Perspiration

Scott's Chemical Co.,
47, Huddlestone Rd.
London. N.W.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM SCREW-CAPPED JARS.
10½d. size—7/6 doz. 1/3 size—10/6 doz.
FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, oet.; £1/10/0 subject to ¼-doz. 1/3 size Boous for window display, oet. Carriage paid oo £1/10/0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA

Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention.

Put up in specially designed tins (containing about 1 1 oz.) to Retail at 2/- per tin.

Trade Terms: 18/- per dozen CARRIAGE PAID.
Net Monthly Account.
7½% off for Cash within 7 days.

From the Sole Inventor and Manufacturer.

ARCHIBALD MOLE-FLOYD,
The Leroza Theatrical Stores,
71, 73 & 75 Cambridge St., GLASGOW.

KOKO FOR THE HAIR

The Hair Preparation with over 30 years' reputation. New retail prices (April 1920) **1/6, 3/-** and **5/6,** on P.A.T.A., giving you a greater percentage of profit.

We are just issuing a new and very attractive showcard which will be sent you on receipt of a postcard.

Do you stock "KOKO" Shampoo Powders, retail **2½**d. per packet, or **1/3** per box of 7. A box can be sold with every bottle of "KOKO." We are daily receiving a large number of post orders for these Shampoo Powders. Why do you not handle this business?

KOKO-MARICOPAS Co., Ltd.

16 BEVIS MARKS, LONDON, E.C. 3.

Telephone—Avenue 595.

A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size. No. 45			1/3 size. No. 495		
1 doz.	-	16/- per doz.	1 doz.	-	11/- per doz.
6 „	-	15/9 „	6 „	-	10/9 „ „
12 „	-	15/6 „	12 „	-	10/6 „ „

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920. *No. 495 supplied in the United Kingdom only.*

The Great Plus

BUSINESS THAT IS WORTH WHILE

TO INTRODUCE

CREME FIAMETTE

TO THE TRADE

It is our pleasure and privilege to introduce Creme Fiamette to the Trade before we introduce it to the Great British Public through the million-voiced press.

A SOUND PROPOSITION OFFERING NEARLY

CENT. PER CENT. ON OUTLAY

Our New Window Display Offers.

No. 10	£	s.	d.
3 doz. Creme Fiamette at 12/- (Free bonus ½ doz.)	1	16	0
1 doz. Creme Fiamette at 20/- (Free bonus $\frac{1}{6}$ doz.)	1	0	0
	2	16	0
Less cash payment for display		10	0
Net cash outlay ...	2	6	0
RETURNS:			
3½ doz. Creme Fiamette, 1/3 each	2	12	6
$1\frac{1}{6}$ doz. Creme Fiamette, 2/3 each	1	11	6
	4	4	0
Less cost	2	6	0
Showing nearly cent. per cent. Profit on outlay ...	1	18	0

No. 20.	£	s.	d.
6 doz. Creme Fiamette at 12/- (Free bonus 1 doz.)	3	12	0
2 doz. Creme Fiamette at 20/- (Free bonus ⅓ doz.)	2	0	0
	5	12	0
Less cash payment for display	1	0	0
Net cash outlay ...	4	12	0
RETURNS:			
7 doz. Creme Fiamette at 1/3	5	5	0
2⅓ doz. ,, ,, at 2/3	3	3	0
	8	8	0
Less cost	4	12	0
Showing nearly cent. per cent. Profit on outlay... ...	3	16	0

No. 30	£	s.	d.
1 grs. Creme Fiamette at 12/- (Free bonus 2 doz.)	7	4	0
4 doz. Creme Fiamette at 20/- (Free bonus $\frac{8}{12}$ doz.)	4	0	0
	11	4	0
Less cash payment for display	2	0	0
	9	4	0
RETURNS.			
14 dozen Creme Fiamette at 1/3 each	10	10	0
$4\frac{8}{12}$ dozen Creme Fiamette at 2/3 each	6	6	0
	16	16	0
Less cost	9	4	0
Showing nearly cent. per cent. Profit on outlay ...	7	12	0

CASH PAYMENT FOR WINDOW SPACE

Let us pay for your Window Space.

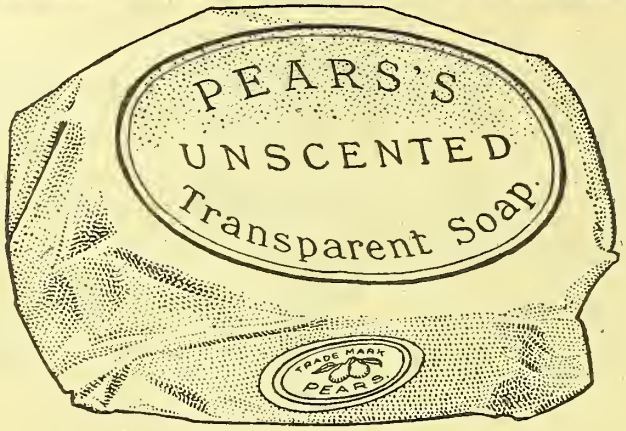
WRITE:—

London. 11, Southampton Row, W.C.

Areco Ltd

Paris IXe Rue Taitbout.

LONDON & PARIS.



Our advertising helps you to turn your money over quickly.

Pears

Nothing Succeeds Like Success.

DELIGHTFUL TO USE—PROFITABLE TO SELL.

SAPON

Cereal SOAPS

Household and Toilet.

The demand for all Varieties is ENORMOUS.

BETTER SOAPS—BETTER PROFITS

SAPON SOAPS say more in their own favour than we can put into print.

SATISFACTORY ALL WAYS ALWAYS.

We are in no way connected with any combine of Soap Makers

WRITE FOR PRICE LIST.

SAPON SOAPS LTD. LONDON BRIDGE, E.C.4.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

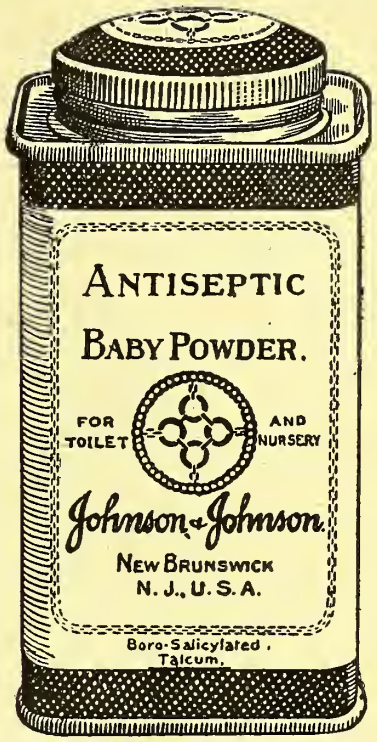
SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.
104 Golden Lane - - E.C. 1.

NILDE of PARIS.

Nilde Powder	1/-	8/-	doz.
ditto	3/6	28/-	,,
Embroidered or Leather	5/-	40/-	,,
Rouge Nilde	1/6	12/-	,,
Embroidered or Leather	5/6	44/-	,,

DORIN of PARIS.

	Doz.
124 Dorin de Poche ...	8/-
1bis Rouge de Théâtre	6/-
4 Rouge Fin de Théâtre	7/-
63bis Eyebrow Pencils	3/4
451 Rouge Brunette ...	10/-
418 Dorina Powder ...	8/-
418ter ,, ,, ...	16/-

£5 lots 5%, £10 lots 10%

POMEROY of LONDON.

Day Cream	2/6	24/5	doz.
Skin Food	1/9	15/5	,,
,, ,, ...	4/-	35/2	,,

LA REINE des CREMES.

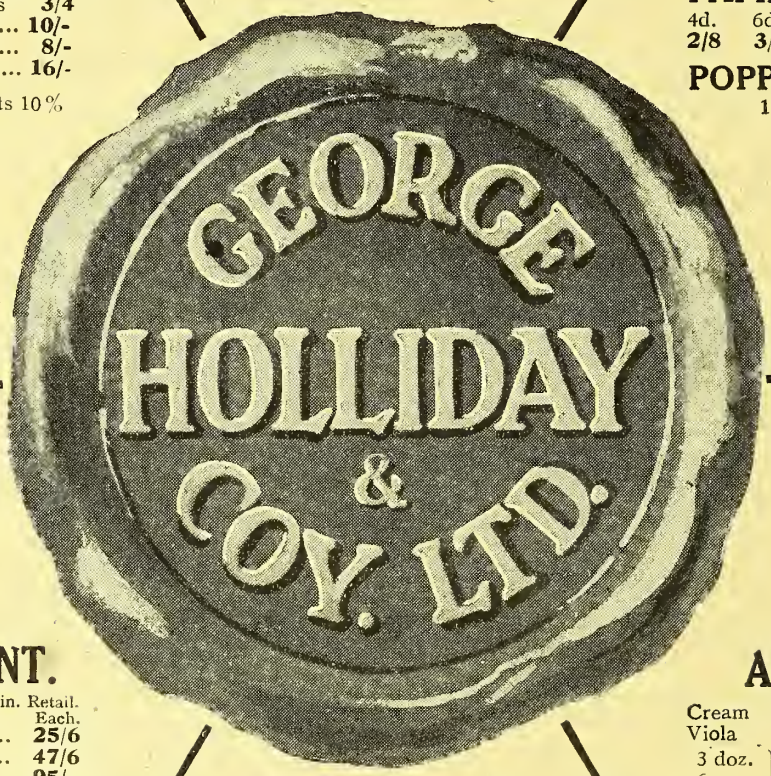
Small	19/6	doz.
Medium ...	28/-	,,
Large	60/-	,,

PAPIER POUDRE.

4d.	6d.	8d.	1/3	
2/8	3/9	5/-	10/-	doz.

POPPŒA ROUGE.

1/- 8/- doz.



HOUBIGANT.

	Min. Retail. Each.
536 Idéal	25/6
539 ,, ...	47/6
540 ,, ...	95/-
710 Quelques Fleurs...	29/6
750 ,, Violettes	25/6
569 Coeur de Jeannette	18/-
584 Mes Délices ...	25/6
661 Premier Mai ...	23/-

Subject to 33% and 5%.

ANZORA.

Cream ...	1/6	12/-	doz.
Viola ...	2/6	20/-	,,

3 doz.	1/6 or	2½%
6 ,,	equiv.	5%
12 ,,	assd.	10%

KRASKA.

1/2	9/6	doz.
1/8	12/6	,,

DIADEM Preparations.

				Doz.
Decoltene Depilatory ...	3/9	size	...	30/-
Dinkie Deodorant	2/6	,,	...	20/-
Diadem Face Powder ...	2/6	,,	...	20/-
,, Complexion Wax	2/6	,,	...	20/-
,, Crême Rouge ...	2/6	,,	...	20/-
,, Vanishing Cream	3/9	,,	...	30/-
,, Talcum Powder ...	1/3	,,	...	10/-
,, Eau de Cologne, 1 oz.	2/3	,,	...	18/-
,, ,, ,, 2 oz.	4/3	,,	...	34/-
,, ,, ,, 4 oz.	7/9	,,	...	62/-
,, Parfum Sec ...	2/-	,,	...	16/-

Carriage Paid on £5 Orders. Cases Free or at Cost and Half Allowed if Retained.

289-325 City Road, MANCHESTER

MALACEÏNE

MALACEÏNE PRODUCTS

Manufactured by

"PARFUMERIE MONPELAS"

PARIS.

On the P.A.T.A.

No.		Wholesale Price Per Doz.	Minimum Retailing Price Each.
62	Crème Malaceïne, Small size - -	21/-	2/6
63	,, ,, Medium size- -	42/-	5/-
64	,, ,, Large ,, - -	66/-	7/6
67	Poudre Malaceïne - - - -	34/-	4/-
71	Malaceïne Toilet Soap - - -	31/-	3/6
78	,, Shaving Soap - - -	31/-	3/6

SHOWCARDS SUPPLIED.

An extensive Advertising Campaign is now proceeding in all the principal Society Papers.

SPECIAL TERMS—

Small quantities - - - - - $7\frac{1}{2}$% 1 Month

£5 lots and upwards - 5% Invoice and $7\frac{1}{2}$% 1 Month

SOLE WHOLESALE AGENTS FOR

GREAT BRITAIN, IRELAND, SOUTH AFRICA and INDIA—

WILLIAM TOOGOOD LTD.
77, SOUTHWARK ST
LONDON, S.E.1.

IMPORTANT NOTICE.

Enolin

The Retail Price of Enolin Tooth Paste & Powder now is

PASTE - 1/6 & 10d. per tube.
POWDER 1/3 & 7½d. per tin.

YOUR PROFIT INCREASED

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

A. & E. CARRERAS, Ltd., 207 King St., Hammersmith, W.6

Sole Export Agents :

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1

THIS SPACE IS

RESERVED

FOR ADVERTISEMENTS OF

MONTROSE SCALP-BRUSH.

Museum 1960.

MONTROSE, SHAWFIELD & CO.,
18-19 Gt. Russell Street, W.C. 1.

TWO DAINTY LINES
THE BEST ON THE MARKET.

Actual size.

NOW IN STOCK. Packed in Pre-war Style Aluminium Hinged Boxes (enamelled finish) and Show Boxes of 1 dozen.

Per 6/- doz.

In Screw-top Boxwood Cases and Outers of 1 dozen with Showcards.

Per 4/- doz.

Manufactured by

SOLPORT BROS., LTD.

184-190 Goswell Road, London, E.C. 1.

Obtainable through all Wholesale Houses.

Manufactured under Hygienic Conditions.

The exceptional Purity of all the EUCRYL Preparations ensures for them a Ready Sale

THE Public, used to higher prices, have created for themselves a higher standard of quality and value, and therefore demand and *will* have the best.

EUCRYL

Tooth Powder & Paste

are made from the finest products. Every ingredient is tested by our Chemists before new deliveries are accepted. Every little point is studied and perfected in the laboratories before the preparations leave the depot. Both EUCRYL TOOTH POWDER and TOOTH PASTE are the acme of quality, and we value your co-operation, Mr. Chemist, and your personal recommendation, for the public are guided by your judgment. Remember also that it pays you to sell EUCRYL, for it gives you a very handsome profit, not forgetting regular repeat orders, and the line is well backed up by judicious advertising in the Press.

EUCRYL Ltd., 138 Borough High St., London, S.E. 1

A Good Dentifrice with Medicinal Qualities

BECAUSE Forhan's For the Gums contains a percentage of Forhan's Astringent, and therefore has special medicinal properties for the treatment of Pyorrhea, inflamed and sore gums, etc., it is taxed as a medicine, and may be sold as a medicine—at any hour.

For the same reason only those qualified under the law to handle drugs and medicines may stock and sell Forhan's—a dentifrice which not only prevents or checks Pyorrhea if used in time and consistently, but which also keeps the teeth white and clean.

A powerful, consistent advertising campaign for Forhan's is being waged in newspapers and magazines with wide circulation throughout the United Kingdom. The "Daily Mail," with its more-than-a-million readers, is but one medium telling the Forhan story.

Put up in the double-size tube, keeping indefinitely after opened without hardening, Forhan's For the Gums will please your customers and build goodwill for you. Order a stock to-day. Displays are available. Prices will be gladly forwarded on request.

Thos. Christy & Co., 4-12 *Old Swan Lane London, E.C.* 4.

Forhan's

FOR THE GUMS

PAPIER POUDRÉ

TRADE MARKS

"LEHCARESOR."

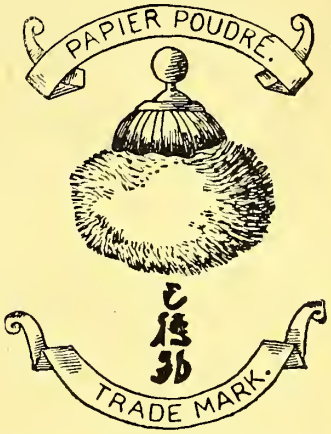
Papier Poudré

British Made Goods.

Beware of Spurious Imitations

Note our Trade Marks.

REGISTERED



PAPIER POUDRÉ, LTD.,
20 Baker St., Portman Sq., London, W.1.
and in Paris.

WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d. and 1/4 size Booklets, 2/8, 3/9, 5/- and 10/- per dozen net, respectively.

SUNBURN TINT, 8d. & 1/4 sizes only, 5/- & 10/- per doz. net.

REFILLS to Mirror Cases in White, Rose or Rachel ... ... **2/8** per doz. net.
8d. **SHAVING PADS**, for Use after Shaving (unscented). White only ... **5/-** per doz. net.

POPPŒA ROUGE

A most popular line. (Regd.)

Made in booklet form. One size only, viz. **1/–**, at **8/–** per dozen net.
Mirror Cases 1/4 at **10/–** per doz. **Refills** for same **6d.**, at **3/9** per doz. net.

NOTICE TO THE TRADE.—As supplies of material have now reached a state of normal condition we are in the position of being able to execute all orders.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQ., LONDON, W.1

GIVE it a good show and it sells itself. There is nothing just like it. The excellence of the product and the practicability of the box make customers for you.

Shows you 33⅓ % on selling price.

POUDRE NILDÉ

in the Sifter Box.

Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

MINIMUM SELLING PRICES:

ROUGE INVISIBLE NILDÉ
in the Sifter Box.

Small size	1/6
In leather case	5/6

Tints:
Brune & Blonde

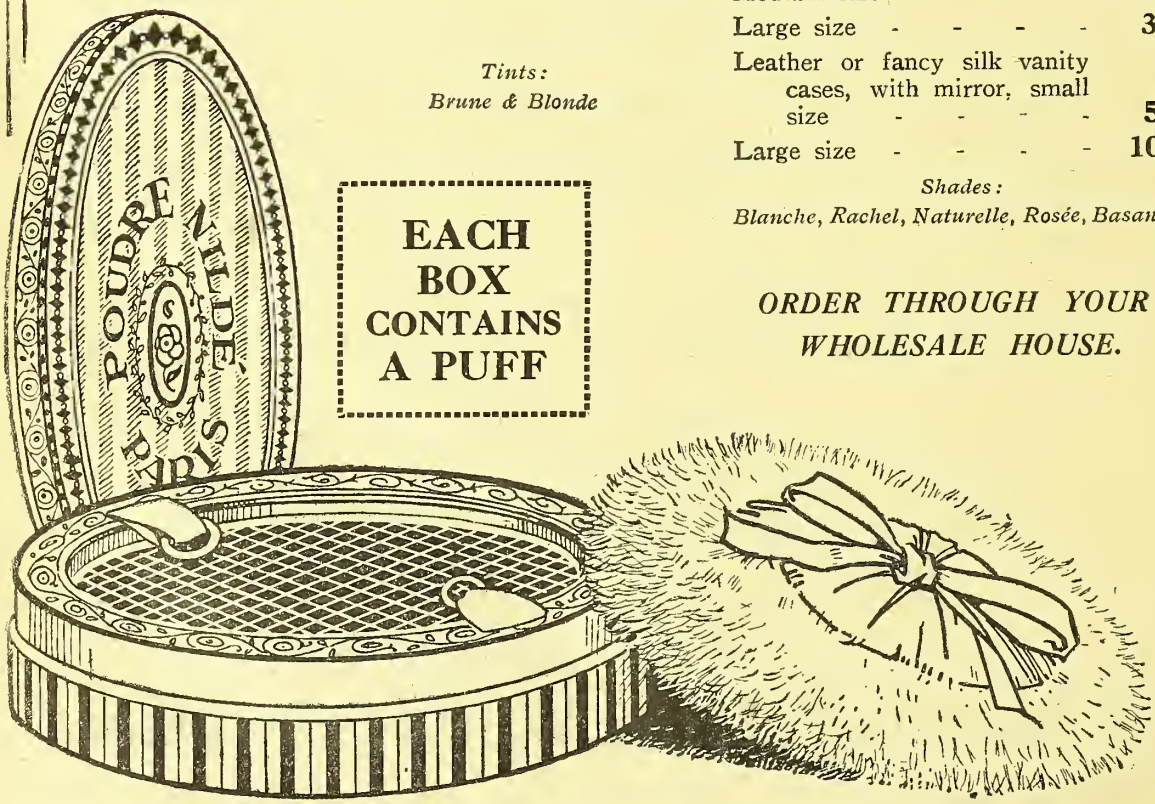
POUDRE NILDÉ
in the Sifter Box.

Handbag size	1/-
Medium size	2/-
Large size	3/6
Leather or fancy silk vanity cases, with mirror, small size	5/-
Large size	10/-

Shades:
Blanche, Rachel, Naturelle, Rosée, Basanée.

EACH BOX CONTAINS A PUFF

ORDER THROUGH YOUR WHOLESALE HOUSE.



GET your stock ready to meet the demand we are creating. This product is as good as the face powder, and will sell as easily.

CRÈME DE BEAUTÉ NILDÉ

A perfect product in a practical and attractive packing. Will be largely and widely advertised to the public for our mutual benefit.

A reproduction of the press advertising will be sent you on request to our agents.

Shows you 33⅓% on selling price.

MINIMUM SELLING PRICE 2/-
Large 3/-

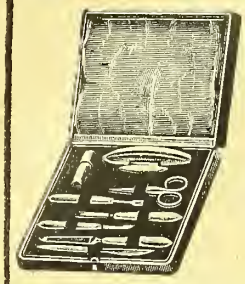
In two Shades:
Blanche and Naturelle.

NILDÉ, Paris

British and Colonial Agents:

8 BLENHEIM ST., LONDON, W.1.

We Manufacture all we sell. We have representatives in Manchester, Glasgow & Ireland. Wholesale & Shipping only supplied.



MANICURE SETS

MANICURE PARTS

HANDLES

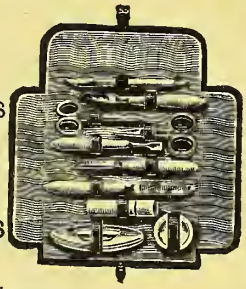
NAIL FILES

DRESSING COMBS

DUST COMBS

BRUSH BACKS

ERINOID ARTICLES



MYERS, LUMOS & CO.,
Sales Offices - 35/6 Aldermanbury, E.C.

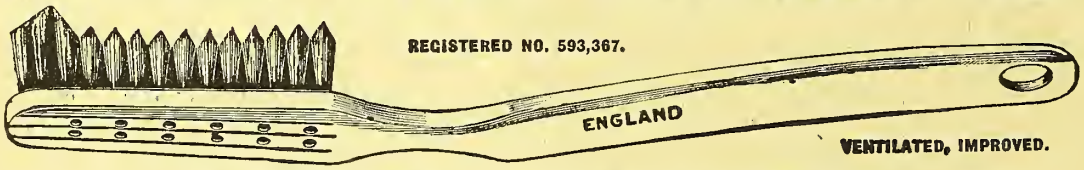
Ring up City 3526.

Factories:
Islington & Finsbury Park, London, N.

ROBERT ADDIS & SON, — Tooth Brush Manufacturers, — London Brush Works, London Fields, N.E.

The "ASEPTIC" or "PROPHYLACTIC."

When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.



To be obtained from Wholesale Houses. Packed in cartons, facilitates sales and ensures brush reaching user in clean and antiseptic condition.

BIDWELLS LTD.

RELIABLE TOOTH BRUSHES

	doz.
Gloria Silverdrawn (assorted patterns)	22/-
ditto Hard white or yellow	26/-
ditto Ex. hard ,, ,, ...	30/-
Mitre	18/-
Elephant	16/-
Anchor	14/-

GROSS LOTS NAMED FREE —— Carriage Paid.

We do not sell FOREIGN TOOTH BRUSHES.

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Large Selection in
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Communicate with us, stating your requirements, and we will furnish samples and quotations.

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No.		Size	Per doz.
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101	White ,, ...	8 × 1¾ in.	8/-
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185	Black celluloid	8 × 1¾ in.	9/6
118	Black vulcanite	8 × 1⅝ in.	10/6
121	Black celluloid	7½ × 1¼ in.	13/-
116	Shell ,, ...	7½ × 1¼ in.	13/6
173	Black ,, ...	8 × 1½ in.	14/6
166	White ,, ...	7½ × 1½ in.	15/-
195	Black vulcanite	8 × 1¾ in.	15/-
168	White celluloid	7½ × 1¼ in.	18/-
204	Horn	8 × 1¾ in.	22/-
106	White celluloid	8 × 1¾ in.	24/-
188	Black ,, ...	8 × 1¾ in.	27/-

GENTS' COMBS.

165	Black celluloid	6½ × ⅞ in.	6/6
144	Black vulcanite	7 × 1 in.	7/6
143	Black ,, stout... ...	7 × 1 in.	8/6
203	Horn	7 × ⅞ in.	9/6

LADIES' RAKE COMBS.

No.		Size	Per doz.
167	White celluloid	6½ × 1¼ in.	12/6
119	Black ,, ...	8 × 1½ in.	13/-
190	Black ,, ...	8 × 1¾ in.	15/-
196	Black vulcanite	8 × 1¾ in.	15/-
206	Horn	7½ × 1½ in.	20/-
207	Horn	8 × 1½ in.	21/-
117	White celluloid	7½ × 1½ in.	21/-
115	White ,, ...	7½ × 1¾ in.	22/-
174	White ,, ...	8 × 1¾ in.	27/-
208	Horn, stout	8 × 1¾ in.	27/-

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104	Black celluloid	8 × 1 in.	18/6
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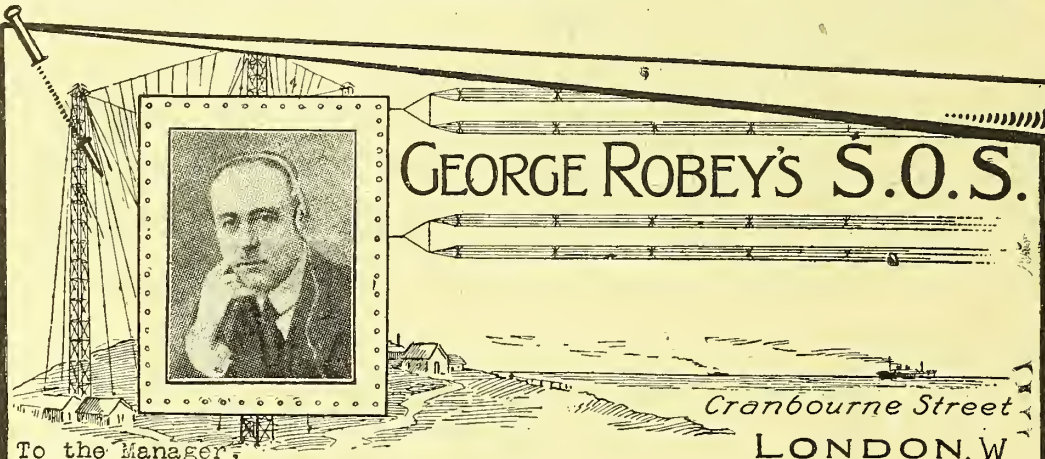
No, *NO*,—n'n'n' NO. I take my cure at home,"

Says **GEORGE ROBEY,** the inimitable comedian, who, like Harry Lauder and numerous others amongst the really great stars of the theatrical firmament, has joined the long list of prominent men and women who have used our Saltrates with results so pleasing that they have kindly written us in grateful acknowledgement of the wonderful benefits derived. No other preparations in the world have ever received such endorsement. The following letter is here reproduced by special permission. SALTRATES, LTD.



Cranbourne Street
LONDON. W

To the Manager,
Saltrates Ltd.,
214 Great Portland Street, W. 1.

March 8th. 1920.

Dear Sir:- That was a good turn you did me in donating the supplies of Alkia Saltrates and Reudel Bath Saltrates that I ordered for the hospital. The favour is appreciated by me as much as the Saltrates are appreciated by all who use them, myself of course included. No one can accord anything higher praise than that.

Personally, I never could be sure of remaining in perfect bodily health and comfort without always having both Alkia and Reudel right where they are handy when wanted. I needed these Saltrates of yours long before commencing to use them, years ago. "Oh! How can I tell you my feelings" in those days. Now, I have no more internal or external aches or pains, no more tired feet or muscular strains. Do I still travel to Continental Spas? No, NO - n'n'n' NO! I take my cure at home.

I realise that every manufacturer appreciates the testimony he knows his products deserve, and it gives me pleasure to acknowledge the benefits derived in my own case. If you consider that my recommendation may be useful in helping others help themselves by using Alkia or Reudel, I have no objection to your quoting this letter.

Yours gratefully

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The Ideal Aspirin Tablet.

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WHEN we first put Genasprin on the market it was instantly recognised as being superior to any other tablet in the world.

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Yet, still we were not quite satisfied : the ideal we aimed at was a tablet which should be physically, as well as chemically, perfect—which should not contain even the ordinary "binding agents" hitherto considered indispensable.

That ideal is now achieved ! We guarantee that Genasprin made by our new process consists solely and simply of the finest quality aspirin, with just a minute quantity of pure arrowroot—and no other ingredient whatsoever.

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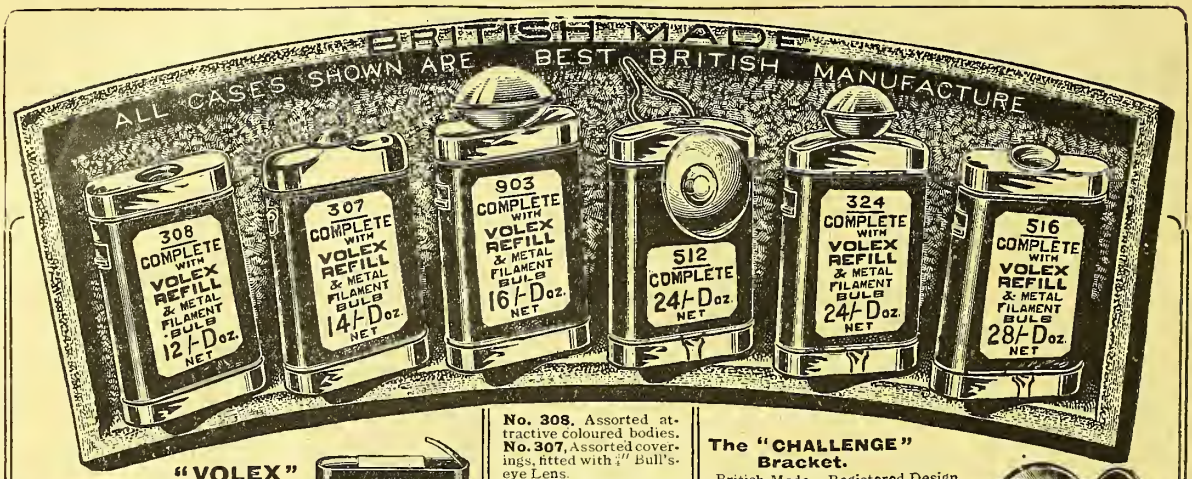

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Dry Battery.
British Made.

8/- doz. net.

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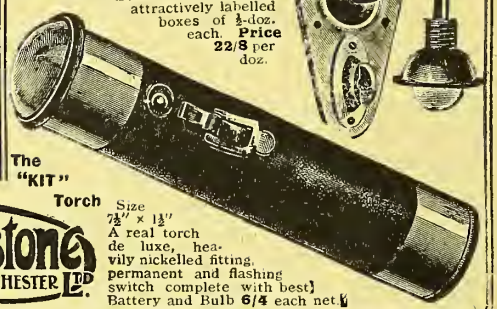

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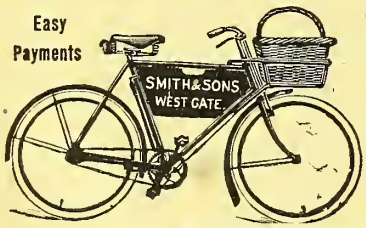

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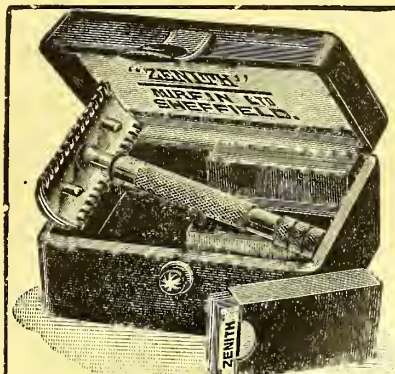

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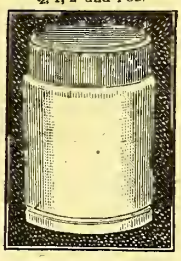

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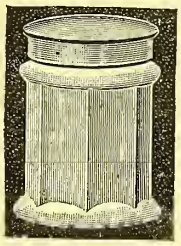

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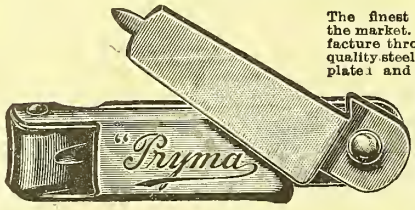

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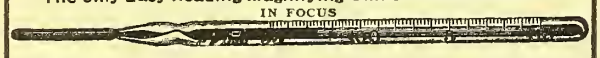

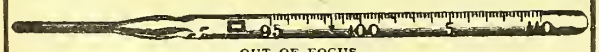

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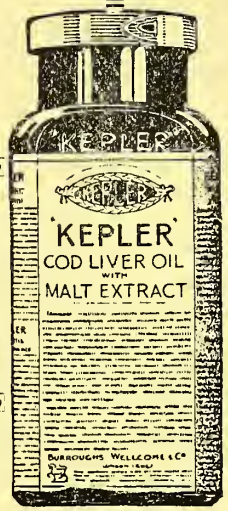

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It is well-known and in demand—therefore is easy to sell.

It carries with it the guarantee of Burroughs Wellcome & Co. for quality.

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INVALIDS AND THE AGED.

46

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THIS PANEL IS IN THE CARBON PROCESS AND IS 8½" × 28"

If not, then don't fail to do so now. There are but a few, and those who apply first will naturally get them. 3 dozen Zepto Pencils at 5/3 per dozen is the little order, and that's virtually one week's sales in an average district. P.A.T.A., and advertised at 9d. So the profit is just 66⅔%.

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

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Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d*. post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

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Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Known, Admitted, and Approved Remedies.

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1921, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

House-organs.

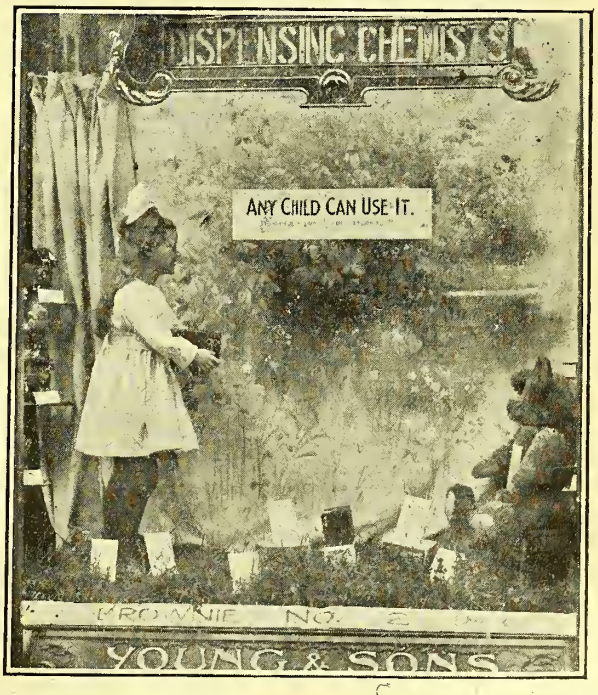
The following are among the house-organs that have reached us during the month:

"'Ensign' Messenger" (Houghtons, Ltd., London, W.C. 1) records the progress that is being made by Messrs. Houghtons. One of the novelties to which attention is drawn is a labour-saving apparatus for developing and printing, which is being put on the market. It is also pointed out that Ensign-Mascot and Ensign-Klito cameras are obtainable in centimetre sizes.

"Glaxo Service Bulletin" (Glaxo, London, W. 1) is a recent recruit to the growing army of house-organs. The first number, a brightly written, sixteen-page pamphlet, contains excellent portraits of Messrs. Hugo Wolff, John Humphrey, and Charles J. Jephcott, followed by articles on "Stock-keeping" (with a Glaxo stock-card and a sales-summary form), "Glaxo Advertising," "Baby Your Best Customer," "The Other Uses of Glaxo," and "What is Glaxo?" An exposition of the aims of "The Glaxo Service Bulletin" and a prize competition are also distinguishing features.

Window-dressing Competition.

Leicester chemists and their assistants have taken the three best prizes in a window-dressing competition recently organised in the borough. The first prize, a cup presented by Mr. G. E. Marfitt (himself a champion in a larger field of the art), was won by Mr. W. Williamson (Young & Sons, chemists) with 95 per cent. of the possible marks. The photograph reproduced below gives some idea of Mr.



Williamson's design: the floor of the window was covered with grass, and the model of the girl photographing a "Teddy" effectively drew attention to the cameras shown. Mr. R. J. Dickson, chemist and druggist, secured the second prize, and Mr. Berry (Needham's, Ltd., chemists) the third, these two competitors being almost equal. There were twenty entries. The entrants were greatly helped by a lecture given by Mr. Marfitt during last winter. The judges were three local pharmacists who

have won prizes in national competitions. Another competition has already been inaugurated, and it will probably give a further impetus to the movement in favour of one-article displays.

Public Institution News.

Mr. A. Westwood, chemist and druggist, has been appointed a temporary dispenser to the St. Pancras (London) Guardians, at a salary of 4*l.* 4*s.* weekly, with dinner.

The following tenders have been accepted by the bodies named:

Lewes Guardians.—Boots, Ltd., drugs.

Maidstone Guardians.—Oliver and Crick, chemists, drugs.

Wetherby Guardians.—C. F. Shewell, chemist and druggist, drugs.

Birmingham.

Scarlet-fever is on the increase in Birmingham. Happily, it is of a mild type.

Cadbury Bros., Ltd., have made a special gift of 90,000*l.* to the trustees of the Bournville pension fund.

The Birmingham schools of pharmacy are about to reopen with a full complement of ex-Service men and other students, and a strenuous time is in prospect.

The jam-making experts of the Government have revised their views on the value of glucose, and are now of opinion that more than one part to each two parts of cane-sugar would probably spoil the finished product. A local pharmacist comments that one part of glucose to three parts of sucrose is the correct proportion.

It would seem that the average salary of a doctor's dispenser is likely to be a small one in the near future. One local practitioner lately told an applicant who asked 2*l.* 2*s.* a week that he (the doctor) had had sixty replies to his advertisement, and had never paid more than 30*s.* He added that he was sure he was right, as he had consulted his pharmaceutical friends! So, at least, the story runs.

Bradford.

Applied optics is among the subjects in which instruction may be gained at the Bradford Technical College. The course is stated to be suitable for either the Spectacle-makers' Fellowship or the British Optical Association's diploma examination. It will also be of assistance in the new physics syllabus, which is to come into operation in Part I. of the Pharmaceutical Society's Qualifying examination in 1922.

The number of pharmacies in Bradford has lately been increased by the addition of those of Mr. J. W. Lamb, chemist and druggist, Little Horton Lane (formerly a drug-store), and Mr. Harry Goodson, chemist and druggist, Wakefield Road. The acquisition of a business at Bradford Road, Frizinghall, by Mr. L. W. Oxley, chemist and druggist, was announced in the *C. & D.* of July 3 (p. 84). [Corrected note.]

A motor-lorry belonging to J. Savage & Co., Ltd., manufacturing chemists, Bradford, which was laden with six carboys of sulphuric acid, ran away on September 22 down Barkerend Road (a steep decline leading to the centre of Bradford) owing, it is said, to the brakes failing to act. The vehicle collided with a tram standard, the effect of the impact being to break the carboys. Vitriol was scattered over a wide area, causing injuries to several persons.

Liverpool.

John Thompson, Ltd., contemplate an early removal to larger and more modern premises.

Inquiries from Canada have reached Ayrton, Saunders & Co., Ltd., respecting their new method of supplying tea to the whole staff.

Mr. Charles Hare (Southport) has received congratulations on the success of a cricket match which he promoted lately for a charitable institution.

A *C. & D.* representative has been shown pharmacists' sundries, palpably German, which are being imported into Liverpool *viâ* another port, and, for all the label shows, might be of British make, as ordered by the retailer.

A cat, described as "decrepit," was sent, the other day, in a hamper to a suburban pharmacy, with a half-crown fee, to be poisoned. On the opening of the hamper, a fine cat bolted and cleared a 6-ft. hedge at a bound. The half-crown awaits the return of the client—or of the cat.

Among the pharmacists who are appealing against income-tax assessment is one to whose profits the surveyor has added 200*l.* Perhaps, in sympathy, the pharmacist's house-owner has increased his rent 35 per cent. and the rating authorities have aded 50 per cent. to their demands.

Three representatives of a manufacturing firm were in Liverpool this week, and all called (together) on one pharmacist, asking him to open an account. Before they left the pharmacist, who had resisted their attack single-handed, was asked to supply one of the trio with a pick-me-up!

Consequent on the abnormal rains, there is a demand for remedies for throat affections and palliatives for face-ache. Retail business as a whole is quieter, owing to the decline of the holiday traffic. Much uneasiness has been expressed regarding the accentuation of unemployment by a spread of industrial unrest.

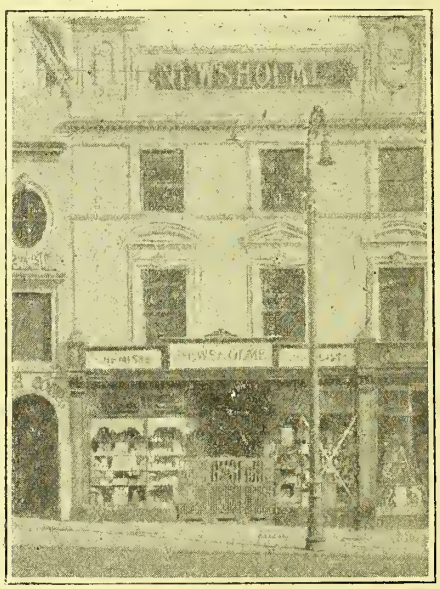
At an inquest held at Liverpool on September 21 concerning the death of a Wallasey woman named McLoughlin, who died at the Royal Infirmary after being operated upon several weeks ago for cancer, it was stated that the temperature of the operating-table became so hot that the patient received severe burns. Neither doctors nor nurses noticed the rising temperature. Professor Battle, Liverpool University, who made a post-mortem examination, said the burns had not much to do with the cause of death, but they could not be ignored, and were in some measure responsible for it. The jury found that death had been accelerated by the burns.

Sheffield.

Mr. S. G. Carey, chemist and druggist, Firth Park, has been awarded the third prize for potatoes grown on local allotments.

The window-display at the Glossop Road branch of Eardley & Furnival has been a great attraction for the public this week. The display consists of a screen with a black frame and a white ground. Suspended from it by red streamers are several bottles of Indian Iris perfume.

The loss of the services of Mr. I. Best, President of the Sheffield Pharmaceutical Students' Association, who is retiring from office on leaving the city, is much regretted by his colleagues. Such changes are inevitable in students' associations; in the case of Sheffield, however, a strong body of officials is again available.



Premises of G. T. W. Newsholme, Ltd., Sheffield. Recently reconstructed.

Miscellaneous.

POISON-LICENCE APPLICATION.—Mr. B. E. Day, Montgomery, is applying for a licence to sell agricultural and horticultural poisons.

END OF SUMMER TIME.—As at present arranged, summer time ends during the night of September 26-27, clocks being put back an hour at 3 A.M.

FIRES.—The following outbreaks of fire have been recorded since our last report: The works of the Melanoca Chemical Co., manufacturing chemists, Beddington Corner, Croydon, were the scene of a destructive fire on September 14. The damage is estimated at 3,000*l*.—An outbreak of fire occurred recently at the Yeovil premises of Timothy White Co., Ltd., chemists. Considerable damage was done before the fire was extinguished.

COCAINE CASE.—At Marylebone Police Court, London, on September 18, Dorothy Gunn (22), Park Road, N.W., and Avice Raichlen (32), Great Woodstock Street, W., were charged with being in unauthorised possession of cocaine. It was stated for the prosecution that Gunn admitted having been to Raichlen's address on more than one occasion for cocaine; and, according to a statement put in by a detective-inpector, Raichlen said she had been living at 7 Great Woodstock Street as a help to a certain woman and her husband. When they went out the man used to leave out several packets of cocaine, which she was to sell at 5*s*. a packet. She had sold several packets there during the last fortnight, and had given the man the money. A remand was ordered, bail being allowed in the case of Gunn. A third woman, Elsie McMahon (29), Great Chapel Street, S.W., was similarly charged at the same Court on September 21, and was also remanded, bail being refused.

EMPIRE MOTOR-FUELS COMMITTEE.—The Empire Motor-Fuels Committee of the Imperial Motor Transport Council has recently appointed small expert committees to deal with: (1) The modification of Customs and Excise restrictions in connection with alcohol; (2) by means of experiments, the best conditions for developing the alcohol engine and types of alcohol fuels—alone or in mixture—for the purpose; and (3) denaturation. It is felt that members of the public who may have given special attention to the question of denaturation of alcohol should be invited to forward any suggestions for confidential examination and report by the denaturation committee. Any such communications should be addressed to Sir Charles Bedford, LL.D., D.Sc., Empire Motor-Fuels Committee, 50 Pall Mall, London, S.W. 1, marked "Denaturation," and will be treated as strictly confidential. Any suggestions which may prove practicable will remain the sole property of the proposer. In the event of any such suggestions proving workable, the inventor will be communicated with and his interests fully safeguarded before proceeding to communicate the results to the Empire Governments concerned.

IN THE COURTS.—At Chesterfield, on September 13, Joseph Beaumont Wannop was charged (1) with stealing eight boxes of Beecham's Pills, four bottles of Sloan's Liniment, eleven tablets of Cuticura soap, and three tins of "Cow and Gate" milk, value 1*l*. 9*s*. 6*d*., between July 20 and September 4, and (2) with wilfully omitting certain particulars from a sales book. The charge was brought at the instance of Mr. James Lord, chemist and druggist, Nottingham, for whom the defendant had been a branch manager. After Mr. Lord had given evidence and had been cross-examined at considerable length, the Bench held that a *primâ-facie* case had not been made out, and dismissed both summonses without calling upon the defence.—At Greenwich Police Court, London, on September 20, Thomas Stopher, ship's steward, was charged on remand with "administering and causing to be taken" a poison with intent to murder (*C. & D.*, September 11, p. 49). Mr. Andrew Moore, Government analyst, said that the meat in sandwiches handed to him was smeared with a blue paste, which he found to contain yellow phosphorus. In one portion there was 0.235 gr., and, as phosphorus evaporated, he concluded that originally there was a greater quantity. A medical witness said that 0.116 gr. of phosphorus had been known to be fatal. Stopher was committe dfor trial.—In Folkestone County Court, on September 21, Upton Bros., furniture dealers, sued the corporation and the shops inspector for damages in respect of the enforced closing of their shops on December 17, 1919. It appeared that the plaintiffs changed the half-holiday in Christmas week from the Wednesday before Christmas (which fell on a Thursday) to the following Saturday. According to the provisions of the Shops Act, when a shop is closed on a Bank Holiday it may be kept open beyond the usual hour on the preceding or succeeding half-holiday. Plaintiffs claimed that Wednesday, December 17, was the preceding half-holiday. The shops were kept open on the afternoon of that day, but the shops inspector threatened to prosecute the managers unless they closed them, which they did. Judgment was given for the plaintiffs, with 38*l*. damages.

Poisonings.

THE following cases of fatal poisoning have been recorded since our last report:

At Worcester, Mrs. Lord, wife of a solicitor, committed suicide by taking hydrocyanic acid while of unsound mind.

A verdict of "Felo de se" was returned at a resumed inquest held at Pontardawe on September 22, on the body of Elizabeth M. Davies (or Thomas), who died of mercurial poisoning (*C. & D.*, September 4, p. 66).

At Chorlton-on-Medlock, Frank Barlow (fifteen) committed suicide by taking hydrocyanic acid, after leaving a note expressing a long-standing decision to end his life if he had not left school by the end of the summer holidays. At the inquest the lad's form-master described him as a most satisfactory student. A verdict of "Suicide while temporarily insane" was returned.

The Cheshire coroner held an inquest at Altrincham, recently, on the body of Ethel M. Bonson (thirty-four), wife of a local tradesman. The evidence showed that she was found dead in a bath, and in the room the husband found a bottle of laudanum. Mr. William Henry Rigby, an assistant with Boots, Ltd., at their Ashley Road branch, said he had searched the poison-register but could not find any trace of a sale to Mrs. Bonson. The Coroner: You admit that this bottle is yours?—It has obviously come from our shop. Your theory is that it has been carelessness on the part of somebody?—Yes. Witness added that he recalled an incident which took place in the shop about a week before Mrs. Bonson died. She came to him and asked for sixpennyworth of laudanum. He asked her what it was for, and she replied that she intended using it for toothache and neuralgia. He put 1 oz. of laudanum into a bottle, and was about to get the poison-book when she asked him if it would do her any harm to take a few drops. He gave her a lecture upon the evil effects of laudanum. She left the shop, taking the bottle with her, and without signing the book. The coroner remarked that it was very honourable on the part of the witness to admit what he had done. Mr. Alfred Jacklin, chemist and druggist, Ashley Road, was asked by the coroner to examine another bottle which had contained laudanum, and to say whether it was his. Witness replied that it was. Referring to his poison-book, he stated that he supplied it to Mrs. Bonson for earache. The Coroner: Has she ever had it before from you?—No, never before. How did she appear to you?—Quite normal. She asked for laudanum for her child, who, she said, was suffering from earache. The coroner, in summing up, said it was an unfortunate thing about the case that the laudanum had been purchased from Messrs. Boots without being signed for, but he admired Mr. Rigby for admitting what had occurred. Whether the Pharmaceutical Society would move in the matter he did not know; he had no hesitation in coming to the conclusion that the deceased was suffering from impulsive insanity.

Irish News.

Brevities.

The Apothecaries' Hall of Ireland will hold a Preliminary examination on October 15 for persons seeking the licence of the Hall. Qualified chemists and those who have served in the Army will be granted a modified examination. Such persons should immediately send particulars of their educational qualifications to the secretary.

The Local Government Board of Ireland have intimated in a circular-letter that under the provisions of the Finance Act, 1920, the contractors for medicine to Irish Unions are entitled during the currency of the present contract to charge extra sums to cover the increased spirit tax in respect of six drugs, and that they are of opinion that the extra sums might be paid on the supplies delivered on or since June 1. Several boards of guardians have agreed to allow the extra sums to the contractors.

Scottish News.

Brevities.

An advance in the agents' prices of several Rexall preparations is announced. The retail prices remain as before.

Dysentery is rife in Buckie and several deaths have occurred. Samples of the burgh water and milk have been analysed, but have revealed no trace of the disease.

Dr. T. F. M'Farlane, Nethergate, Dundee, has died, after being unconscious for a week, as the result of falling from the stairs of a tramcar. The doctor was in practice in Dundee for thirty years, and was well known to local chemists.

Unlike the suburban chemists of Manchester (*C. & D.*, September 18, p. 50), Scottish chemists mean to retain the earlier-closing movement permanently, and, if possible, to improve upon existing hours of business.

A Scottish pharmacist was recently told by a member of the public that chemists' prices have not been advanced to the same extent as those of the majority of traders. This brilliant discovery may have something to do with the marked drop in the number of complaints of profiteering.

Should the proposals for harnessing the water-power of the Lochaber and Perthshire areas materialise, there would be no limit to the industrial prosperity which would accrue to that part of the country. The schemes hinted at include the electrification of a portion of the Highland Railway, and the erection of power-stations for the supply of several cities and towns.

The Education Authority of the County of Dumbarton have informed Clydebank Pharmaceutical Committee that it is proposed to institute a class for Part I. of the Qualifying examination in Clydebank, and that application will be made to have this class recognised by the Council of the Pharmaceutical Society. Students resident in Dumbarton County will pay no special fees, and should claim their travelling expenses. Students resident in other areas may be charged a special fee, but they should claim travelling expenses and fees from their local education authority. Further particulars may be obtained from Mr. John Weir, 3 Glasgow Road, Clydebank.

Glasgow.

Iron Jelloids and Palmolive soap appear to have found favour with local pharmacists, judging by recent window-displays.

The late Dr. Charles Workman, Woodside Terrace, examiner in pathology to the Royal Faculty of Physicians and Surgeons, Glasgow, left estate valued at 96,797*l*.

WHILE looking for blackberries in Swansea Valley recently, a lad aged nine ate some hemlock-seeds, with a fatal result.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of seven Chemists' Societies in Australia and New Zealand.

RECIPROCITY DIFFICULTIES.—The Queensland Pharmacy Board some time ago decided not to grant registration without examination to British qualified chemists, on the ground that the Queensland chemists were not granted the same rights in Great Britain. The rule, however, works disadvantageously to Queenslanders sometimes. A case in point is that of W. R. C. Griffiths, who had not completed his three years' apprenticeship under written articles when he enlisted. He received, however, a concession from the A.I.F., while on service in England, to study for the Minor examination of the Pharmaceutical Society of Great Britain, which he passed. He asked the Queensland Board to register him on his British Minor certificate. The Board has no power to do this until it has obtained an alteration of the by-laws, giving it the privilege of accepting his certificate or otherwise. It was resolved to ask other Boards in the Commonwealth what action they have taken in similar instances. Meanwhile, Mr. Griffiths was granted provisional registration until he can comply with certificate.

FUNGICIDES STANDARDS.—Amended standards have been issued in Victoria under the Fungicides Act, 1916. A new requirement is that the label must state that the preparation does not contain more than the percentage of any ingredient allowed by the standard fixed in the proclamation. The alterations are as follows:

Bordeaux mixture must not contain more than one-tenth of 1 per cent. of uncombined copper sulphate, with not less than 50 per cent. copper sulphate calculated on a dry basis.

Lime sulphur must contain at least 20 per cent. of soluble sulphur, and have a density of 24° Baumé, and the label must declare the percentage of sulphur soluble in water and Baumé density.

Sulphur shall contain not less than 98 per cent. of the element sulphur, which must be declared on the label, which must also state whether it is natural sulphur, flowers of sulphur, and so on.

Arsenate of Lead.—The labels must declare the water-soluble arsenic compounds present, calculated on a dry basis as arsenic pentoxide, and (as according to the previous proclamation) it must contain not less than 25 per cent. of arsenic pentoxide, and not more than 1 per cent. of water-soluble arsenic compound.

Benzol emulsion (new) shall contain at least 25 per cent. of light oil, showing a boiling-point under 150° C. It shall readily mix with water without any separation of oil. The label must declare the percentage of light oil present.

Nicotine solution (new) shall contain not less than 20 per cent. nicotine, the percentage of which must be declared.

Paris Green.—The label must show the percentage of arsenic in water-soluble form, calculated as arsenic trioxide, otherwise as according to the previous proclamation it must contain at least 50 per cent. of arsenic trioxides, and not more arsenic in water-soluble form than is equivalent to 3½ per cent. of arsenic trioxide.

Red Oil, Red Oil and Soap, and/or Red Oil Emulsion.—In the previous proclamations these had to contain not less than 50 per cent. of mineral oil. The present proclamation states not less than 80 per cent. It is now required that it shall be readily mixed with water, and form a milky solution without separation from any of the original oil, and the label must declare the percentage of the mineral oil present.

Sodium Arsenite.—A new requirement is that it shall contain not less than 40 per cent. of arsenic trioxide, which must be declared on the label.

Soluble oil mixtures and preparations, a new item, must contain not less than 25 per cent. of oil, so prepared that they will readily mix with soft water without the water becoming cloudy, and without the separation of any of the original oil; they shall otherwise correspond with the requirements for red oil preparations.

Tobacco extracts, tobacco powders, and/or tobacco preparations (new) shall contain not less than 1 per cent. of nicotine, which must be declared.

AUSTRALIAN DEXTRIN.—With a view to meeting the Australian demand for dextrin, a firm engaged in this industry in Melbourne has recently extended its plant.

French News.

(From the "C. & D." Paris Correspondent.)

PROF. BOURQUELOT explained recently to the Paris Society of Pharmacy how (in collaboration with M. Bridel) he had obtained biochemically cane sugar from gentianose.

A PHARMACIST AT PARIS PLAGE is exhibiting the following notice: "Open from 8 A.M. till noon, and from 2 to 8 P.M. Outside these hours, 5f. extra charged. Night service, 9 P.M. to 7 A.M., 10f."

M. GATIEFOSSE'S ARTICLE on Lavender (*C. & D.*, September 11, p. 68), writes our correspondent, suggests sunny souvenirs of the South. Anyone who has tramped over the mountains behind Grasse in the month of August will remember one of the chief charms of some of the savage spots is the exquisite odour of the wild lavender. The gathering of this mountain lavender is, of course, one of the minor branches of the great local industry in natural perfumes.

ZINC IN THE HUMAN FRAME.—M. Sinicha Giaya, who appears to have worked under the auspices of M. Guerbet (Professor of Toxicology at the Paris Faculty of Pharmacy, and M. Kohn Abrest (Director of the Laboratory of Toxicology of the Paris Prefecture of Police) publishes an article on this subject. He does not consider its presence normal or constant, and notes that the proportion increases with the age of the subject from 0.009 gram per kilo. of viscera in an infant of three months to 0.05 gram in a person of seventy. The maximum quantity is found in the brain.

THE MANIFESTO OF the ninety-three German savants at the time of the war, which was one of the causes of the striking off of the names of Germans from the roll of so many learned societies in Allied countries, was discussed by a French journalist recently with a German doctor named Vogt. The latter pretends that Government pressure was brought to bear, and that "most signed without reading it." The initiators, he added, were "Egyptologists, archæologists, and novelists," and not real scientists. "When the most reputed of our physicists and chemists knew the exact text, they withdrew their adhesion. Erlich and Wassermann, for instance, protested vigorously." The reporter adds that the German universities are even now hardly to be considered as likely leaders in any friendly movement towards the Allies.

HONOURING SCIENCE.—An important "promotion" in the Legion of Honour is to take place this month. It is already public that Dr. Calmette, of the Lille Pasteur Institute, will be given the grade of Commander of the Order, while Dr. Roux, director of the Paris Institute, has been nominated to the dignity of the "Grand Cross." "Principal collaborator and disciple of Pasteur" (runs the official decree); "he has pursued, during a life admirable in its simplicity, modesty, diligence, and self-devotion, the great work of the Master, especially by his researches as to croup, conquering this redoubtable malady by his discovery of antidiphtheritic serum. . . . A noble and grand figure among all those of the scientific world." What is perhaps less generally known is the inconspicuous but essential work he performed during the late war. As President of the Higher Hygiene Council his business was to discover means of avoiding the terrible epidemics so often let loose by prolonged warfare, not only typhus, but cholera, the plague, etc., which Indian or other overseas troops might introduce into France. With Dr. Laveran, his fellow Nobel prizeman, he made many visits to the camps and hospitals at the front to judge personally what measures might become necessary. The sweeping and thorough manner in which tetanus was minimised is a matter of common knowledge. Diphtheria, cerebro-spinal meningitis, and many other diseases might be added to the list. The one redeeming feature of those terrible four years in France was the fact that for once disease seemed to fail to compete with actual wounds as a cause of death, a happy contrast to most previous campaigns of far shorter duration.

Colonial and Foreign News.

PROHIBITION ON CANNABIS INDICA IN CEYLON.—The Acting Governor of Ceylon has communicated with the Secretary of State on the question of the prohibition of the import of cannabis indica to Ceylon, and the granting of better facilities to the medical profession for prescribing its compounds. Recently, the British Medical Association (Ceylon branch) asked the Governor for an interview on the subject, and the Acting Governor intimated that he was in correspondence with the Secretary of State on the matter, and till a reply was received no useful purpose would be served by a deputation waiting on him.

SCANDINAVIAN PHARMACEUTICAL CONFERENCE.—A conference of representatives of Norway, Denmark, and Sweden was held in Stockholm on September 10 and 11, under the presidency of Mr. S. Gullstrom, to discuss matters of common interest to the Scandinavian countries. The question of the establishment of a common Northern (Scandinavian) pharmacopœia was introduced by Dr. O. Friedrichs, and after considerable discussion a resolution was passed in favour of adopting measures to bring their respective pharmacopœias into close agreement. Mr. O. Simonsen (Norway) next brought forward the question of the administration of the pharmacy system, and this resolved itself into a review of the customs obtaining in the three countries. Mr. C. Nyhren (Sweden) then queried the right of doctors in one country to have prescriptions dispensed in the two others. The problem, he said, is of practical interest, especially for frontier districts and towns on both sides of the Sound. During the discussion the speakers agreed that alterations in the regulations would be of advantage, although one Swedish representative declared that the special conditions in the different countries would render reform impossible. The proceedings at the second day of the conference were opened by a lengthy discussion on State or private pharmacies, which was introduced by Mr. O. E. Alkman (Sweden). He pointed out that no model system existed for the regulation of pharmacy, but that the development in Europe almost everywhere tended in the direction of the personal concession. There were various indications that the present Swedish Government is not opposed to State monopoly. In his opinion, however, the system in Sweden could already be regarded as being socialised, because the State owned all the concessions, and the appointments to them were filled in the same way as those for State officials. It was doubtful whether the expenses under a system of State pharmacies could be less than under the existing system, as Government intervention almost always meant an increase in the prices of the commodities concerned. Professional men seemed to be united in their belief in the superiority of the personal concession. Mr. Haegge (Norway), who reported on the question as it affected that country, remarked that a committee was at present engaged on an examination of the problem of the pharmacy system. State working had very few sympathisers among pharmacists in that country. Mr. Host-Madsen (Denmark) observed that the question was not so acute in Denmark as in Norway and Sweden, as the law passed in 1913 had provided in general a good solution of the problem. The general feeling was that the system of personal concessions was the best. Mr. Sjoberg (Sweden) then brought forward the problem of admission to the pharmaceutical profession. He expressed the opinion that the present examinations of students should be maintained, but that in addition a lower degree for "technical assistants" (unqualified workers), especially women, would be appropriate. Mr. H. M. Moa (Norway) stated that an examination of students had not been considered essential in that country. But pharmacists are now agreed in demanding the passing of an examination before students enter the profession. During the discussion some of the speakers said that to legalise technical assistants by means of a less strict examination would shake the confidence of the community and depreciate the social position. Norway was selected for a further joint conference, to be held within the next three years.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Transvaal.

BUSINESS CHANGES.—Mr. J. O. Thomson has disposed of his business in Hanau Street, Jeppestown, to Mr. M. de Leeuw, late of Pretoria and Ventersdorp. Mr. Thomson has accepted a position with Messrs. B. Owen Jones, Ltd., at Boksburg North.—Mr. W. Whyte, of Roodepoort, has disposed of his business there to Mr. M. Kotzen.

PERSONAL.—Mr. J. L. Morrison has returned to the Transvaal after an absence of many years, during which interval he has been in business in the neighbourhood of Ponders End, London. Mr. Morrison intends starting business in the Transvaal.—Professor J. A. Wilkinson, of the S.A. School of Mines, gave a very interesting account of the growth of the Johannesburg University. He also dwelt on the need of the pharmaceutical student having a good groundwork in the various subjects previous to embarking on pharmacy proper.—Mr. John Christie, the well-known Fordsburg chemist and druggist, has been elected to the Provincial Council of the Transvaal, representing the labour interests of the Langlaagte Division.

Pharmaceutical Society of the Transvaal.

AT the annual general meeting there was a good attendance of Transvaal chemists in the Board Room of the Grand National Hotel on July 29. The first business of the evening, that of electing the new committee, resulted in Messrs. Macintosh, Leeds, Braes, Macdonald, Ralling, Hamilton, Geo. Christie, Ferguson, Whyte, Blair, and Thomson being appointed the executive for the ensuing twelve months. Mr. R. Macintosh (manager of Petersen's local house) was elected President for the second time; and Mr. J. M. Braes, Vice-President. Mr. E. O'Brien was appointed honorary secretary and treasurer. The President expressed his thanks to the members for the honour they had done him in electing him to that office for the second year in succession. Various matters affecting the trade were discussed. Mr. John Christie deplored the fact that so very few apprentices were coming forward, and impressed on the masters present the need of doing all in their power to induce young men to take up this profession, as they could no longer depend on overseas for the supply of men. Mr. Macintosh supported Mr. Christie, and remarked that the present paucity of apprentices must be put down to the fact that the chemists were in a certain way to blame, as they were too fond of decrying their own calling. Now that hours were much lighter than they used to be he did not see that that bugbear should deter promising lads from entering a calling which offered just as good prospects as any other trade or profession. Mr. A. Oxenham, Vice-President of the Pretoria branch of the Society, proposed that the Society should send a memorandum to the Minister of Health, expressing the deep disappointment of its members that the Medical, Dental, and Pharmacy Bill had not yet been passed.

Pharmaceutical Society of the Orange Free State.

A GENERAL meeting was held at Vicker's Buildings, Bloemfontein, on August 24. There were present: Mr. Taylor, President; Mr. Prophet, Vice-President; Mr. Weller, secretary; Messrs. Reid, Reichenberg, Fyfe, Gunn, and Carter, members; and Mr. Foster, a visitor, who was subsequently elected a member of the Society. There was a long discussion on pharmaceutical reciprocity between the provinces of the Union. Mr. Taylor, who opened the discussion, informed the meeting that a conference had been held by the Natal, Transvaal, and Cape Societies at Durban recently; he deeply regretted that these Societies had ignored the O.F.S. Society in this matter, and considered it to be a very unfriendly act on their part, especially as the O.F.S. Society had always been to the fore in pressing for pharmaceutical reciprocity in the Union. Their only ground for this action appeared to be that the O.F.S. term of apprenticeship is three years and that of the other provinces four years. This, he thought, could have been easily arranged at a joint conference, and as a matter of courtesy the O.F.S. Society should have been invited to attend such a conference. Mr. Reid proposed that a letter be sent to the Minister of Public Health stating that:

We are informed that a conference has been held by the three other provinces of the Union (omitting the O.F.S.) *re* pharmaceutical reciprocity, and we would be glad if you would defer any action resulting from such conference until we have had an opportunity of being heard in this matter.

This was seconded by Mr. Gunn and carried unanimously. Mr. Carter proposed writing to Mr. Stranack, of Durban, asking for particulars of the recent conference. This has not been done. Later information was received from the Pharmacy Board which places a better complexion on the subject, and there is every hope that matters will be arranged satisfactorily. There was a long discussion as to the registration of Apothecaries' Hall men and others who had been registered as chemists and druggists without further examination in Great Britain. Mr. Taylor said that they had power under their regulations to refuse registration to these men, as they did not come up to the standard laid down in their regulations. Regulation 18, part 2, Pharmacy Ordinance of the O.F.S., 1904, reads as follows:

Any person who holds a certificate or diploma as a pharmaceutical chemist or as a chemist and druggist from the Pharmaceutical Society of Great Britain, or from any College, Society, or Board in any Colony, State, or Dependency of the British Empire recognised by the Council under regulations as aforesaid, may, if otherwise complying with the provisions of this Ordinance and of such regulations, without further examination, obtain a certificate of registration as a chemist and druggist in this Colony, *provided always that no such certificate of registration shall be granted unless the curriculum and standard of proficiency of examination required for any such certificate be not lower than those to be prescribed by regulations as aforesaid.*

The secretary was instructed to write the Cape, Natal, and Transvaal Societies on this matter. Mr. Reichenberg proposed that the Society address a letter to the Registrar, O.F.S. Medical and Pharmacy Board, protesting against the admission to the Register of Chemists and Druggists of this province of persons recently admitted to the Register of Chemists and Druggists in Great Britain without examination. This was seconded by Mr. Prophet and carried. There followed a discussion on classes for students, of which all members present were in favour. The report of the committee is as follows:

A meeting of delegates representative of the Grey University College, Pharmaceutical Society, and the Chemists' Assistants' Association was held at Vicker's Buildings, Bloemfontein, on August 6. Present: Dr. Rindl, Dr. Potts, Messrs. Taylor, Gunn, and Reid. After a discussion, during which the need of these classes was fully recognised, it was decided to recommend as follows: That the Grey University College Council be asked to arrange for these classes; that the classes be held under the ægis of the University, who will assume financial control; that a course of lectures extending over a period of thirty-two weeks be held every year, providing at least four students present themselves, and are prepared to take the full course; that the lectures on chemistry and physics be held at the University, alternating Wednesday afternoons with botany; that lectures on materia medica, pharmacy, and dispensing be held in the evenings, and not at the University; that the estimated cost of 150*l.* per annum be met as follows: 50*l.* from fees, 50*l.* from the University, and 25*l.* each from the Pharmaceutical Society and Assistants' Association; that the lecturers be paid at the rate of a guinea per hour.

Mr. Carter proposed the adoption of this report, and the secretary was instructed to write Dr. Rindl informing him that the above report had been accepted by the O.F.S. Society. Mr. Turner, chemist and optician, Bethalie, was unanimously elected a member of the O.F.S. Society. The secretary was instructed to write to the secretary of the

P.A.T.A. thanking him for the price-list sent, forwarding him a list of members as he requested. There was a good deal of discussion about the proposed price-list, and it was resolved to hold a special meeting on August 30. There was a good attendance at this meeting, and much useful work was done.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

SOAPS, LTD. (P.C.).—Capital, 5,000*l.* Objects: To carry on the business of hard, soft, and dry soap manufacturers and dealers, soap-boilers, manufacturers of fat and fatty articles, perfumers, etc. R.O.: 55 Newhall Street, Birmingham.

IRISH DISINFECTS, LTD. (P.C.).—Capital, 1,000*l.* Objects: To acquire the business of the Irish Disinfectant Manufacturing Co., 23 Waterford Street, Dublin, carried on by S. J. Carroll, A. D. Mitchell, J. P. Conry, and E. J. Mallins. The first directors are: I. Ingham, 122 Rathgar Road, Dublin; A. J. Sheeran, 23 Kildare Street, Dublin; J. P. Conry, A. D. Mitchell, and E. J. Mallins (no addresses given). R.O., 23 Waterford Street, Dublin.

HUGH STEVENSON & SONS, LTD.—Capital, 1,000,000*l.* Objects: To adopt an agreement with Hugh Stevenson & Sons, Ltd. (incorporated in 1898), and J. C. Dixon, and to carry on the business of plain, fancy and tin box makers, maufacturers of cases, tubes, bags, tickets, bobbins, frames and fancy articles, paper, papier mâché, cardboard, strawboard and leatherboard, celluloid, tin, envelopes, and wood pulp; stationers, printers, machine rulers, advertising agents and contractors, manufacturers and spinners of cotton, thread, flax, hemp, jute, linen, plush and other fibrous substances, manufacturers of leather, gum, chemicals, paints and varnishes and machinery, cabinet makers, joiners, builders, shipowners, shipping agents, wharfingers and warehousemen, importers, exporters, etc. The first directors are: Sir Alexander Roger, Yockley House, near Camberley, Surrey; A. Stevenson, Cornercroft Hall, Cheshire; A. H. Stevenson, The White House, Summerstown, S.W. 17; E. J. B. Standerwick, Oaklands, Wardle Road, Sale, Cheshire; P. J. Mitchell, The Shanty, Staines; S. W. Oglesby, Willonyx, Rutford Road, Streatham, S.W. 16; P. H. Thomas, 43 Princes Gardens, S.W. 7; and S. J. Passmore, 42 Avenue Road, Regent's Park, N.W. R.O.: 37-41 Gracechurch Street, London, E.C.

JOINT-STOCK COMPANIES.—Notice is given in the "London Gazette" that the name of Chemicals and Saccharin, Ltd., has been struck off the register and the company dissolved.

UNITED DRUG CO., LTD.—The directors report net profits, after taxes, of $2,587,595 for the half-year ended June 30, 1920. After providing for the half-year's dividend on first and second preferred stocks, there remained final net earnings of $1,987,442 applicable to the common stock, equivalent to $6.82 per share on $29,098,700 ($100 par value) common stock outstanding. United Drug Co. (through ownership of Liggett's International, Inc., Class "B" common stock) is entitled to its proportion of the net earnings of Boots Pure Drug Co. ordinary shares since March 31, 1920, but as title to Boots Co. ordinary shares did not actually pass until after June 30, 1920, such earnings are not included in this statement.

COMMERCIAL TRAVELLERS IN THE ARGENTINE.—By a recent agreement between the United States and the Argentine Government, the United States have obtained for their own commercial travellers visiting the Argentine Republic certain special facilities which are at present not applicable to travellers from the United Kingdom and other countries.—*Bulletin of the Federation of British Industries.*

Deed of Arrangement.

Snowden, Frederick Ronald, 53 High Street, Sutton, Chemist and Druggist.—Trustee, P. S. Booth, 31 Kimberley House, Holborn Viaduct, London, E.C., accountant. Dated, September 8; filed, September 15. Liabilities, 1,134*l.*; estimated net assets, 884*l.* Among the creditors are: Allen & Hanburys, Ltd., 12*l.*; Anglo-American Oil Co., Ltd., 6*l.*; T. F. Bristow & Co., Ltd., 7*l.*; W. Butcher & Sons, Ltd., 20*l.*; Arthur Berton, Ltd., 9*l.*; British Drug Houses, Ltd., 18*l.*; Burgoyne, Burbidges & Co., Ltd., 75*l.*; British Colloids, Ltd., 9*l.*; Camwal, Ltd., 5*l.*; Duncan Flockhart & Co., 93*l.*; De Vilbiss Co., Ltd., 4*l.*; W. Edwards & Son, 34*l.*; Evans Sons Lescher & Webb, Ltd., 10*l.*; Fassett & Johnson, Ltd., 5*l.*; Greenwich Lemonade Co., Ltd., 16*l.*; Houghtons, Ltd., 10*l.*; C. J. Hewlett & Son, Ltd., 4*l.*; Idris & Co., Ltd., 15*l.*; Thomas Kerfoot & Co., Ltd., 3*l.*; Kodak, Ltd., 21*l.*; G. B. Kent & Sons, Ltd., 12*l.*; Lysol, Ltd., 4*l.*; S. Maw, Son & Sons, Ltd., 58*l.*; Price's Patent Candle Co., Ltd., 6*l.*; Parke, Davis & Co., 9*l.*; A. & F. Pears, Ltd., 16*l.*; Prichard & Constance (Wholesale), Ltd., 3*l.*; J. T. Powell & Co., Ltd., 4*l.*; Powell's Thermometer Co., 4*l.*; Palmolive Co., 5*l.*; Solport Bros., Ltd., 3*l.*; Wm. Sutton & Co., 45*l.*; Spurway et Cie., 10*l.*; Scholl Manufacturing Co., Ltd., 12*l.*; Virol, Ltd., 7*l.*; Western Dental Manufacturing Co., Ltd., 3*l.*; Wright, Layman & Umney, Ltd., 85*l.*; Warwick Bros., Ltd., 6*l.*; Wander, Ltd., 8*l.*; Western Tablet Co., Ltd., 11*l.*; Yardley & Co., Ltd., 11*l.*; John Timpson & Co., Ltd., 3*l.*; Ford, Cook & Co., Ltd., 11*l.*; London Essence Co., 3*l.*; Vinolia Co., Ltd., 5*l.*; Southall Bros. & Barclay, Ltd., 6*l.*; Thew, Hooker & Gilbey, Ltd., 10*l.*; E. Jackson & Co., 6*l.*; Townsend & Sons, 5*l.*; F. J. Wilkinson, 6*l.*; Cuxson, Gerrard & Co., Ltd., 7*l.*; Milbay Soap and Candle Co., Ltd., 3*l.*; D. & W. Gibbs, Ltd., 7*l.*

Coming Events.

Monday, September 27.

British Optical Association, Victoria Hotel, Deansgate, Manchester, at 6.30 P.M. Twenty-fifth anniversary dinner. Tickets (15*s.* 6*d.* each) from Mr. W. B. Barker, 34 King Street, Manchester. Members and friends invited.

Tuesday, September 28.

British Optical Association, School of Technology, Sackville Street, Manchester, at 7 P.M. Lantern lecture by Dr. Margaret B. Dobson on "Diseases of the Macula Region of the Fundus Oculi."

Wednesday, September 29.

Liverpool Chemists' Association, Royal Institution, Colquitt Street. Opening meeting of the session. Whist-drive and social evening at 7.30 P.M. Tickets (1*s.* 5*d.* each) may be obtained from Mr. A. S. Furniss, 531 Prescot Road, Old Swan, or from any member of the ladies' committee.

Manchester Pharmacists' Masonic Association, Victoria Hotel at 6 P.M. Annual dinner. Applications for tickets (14*s.* 6*d.* each), accompanied by remittance, should be sent to the Hon. Secretary, Bro. A. Newton, 20 Salisbury Drive, Prestwich, Manchester.

British Chemical Trade Association, Hertfordshire Room (Abercorn Rooms), Great Eastern Hotel, Liverpool Street, London, E.C. 2, at 2.30 P.M. Annual meeting.

Thursday, September 30.

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, W. 1. Annual reunion. Reception by the President at 7 P.M., followed by supper and a whist-drive. Tickets (6*s.* each) may be obtained from the Secretaries and members of the committee: application not later than September 25 is requested.

MANCHESTER PHARMACEUTICAL ASSOCIATION.—A whist-drive and concert will be held in the Midland Hotel, on October 6, at 6.30 P.M. Tickets (5*s.* 6*d.* each) from the Secretary or any member of Council.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS (LONDON GROUP).—A whist-drive and social, in aid of the Pharmaceutical Society's Benevolent Fund, will be held at the Progressive Pharmacy Club, Arundel Hotel, Arundel Street, Strand, London, W.C., on October 13, at 8 P.M. Tickets (3*s.* 6*d.* each) may be obtained from Miss Andrews, 285 Harrow Road, W. 9; Miss Borrowman, 17 The Pavement, Clapham Common, S.W. 4; Miss Braithwaite, 17 Bloomsbury Square, W.C. 1; or Miss Fordyce, 26D Clanricarde Gardens, W. 2. Morning dress.

Pharmaceutical Society of Ireland.

Council-meeting.

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on September 14, Mr. J. E. Connor, J.P., President, in the chair. The following members of the Council were also present: Dr. A. J. Barnes (Vice-President), Messrs. G. D. Beggs, J.P. (hon. treasurer), James Michie, Charles E. Digges, H. Lancashire, J.P., D. M. Watson, Wm. J. Hardy, W. F. Wells, A. Owen Wells, Victor E. Hanna, and G. A. McLean Lee.

Mr. Richard Blair, Cork, wrote that he was unable to be present owing to various causes.

ARMY COMPOUNDING SERVICE.

Dr. J. C. McWalter, who was unable to attend, wrote:

I hope it may be possible to grant Mr. Beggs' request. I think we have power to accept a man's Army service at compounding in lieu of a year's apprenticeship.

The REGISTRAR stated that he had not received any application from the Mr. Beggs referred to in Dr. McWalter's communication.

Mr. HARDY said the matter was in connection with the scheme of the Ministry of Labour to provide employment for disabled soldiers who could not restart in their original employment. Quite a number of them wanted to get into pharmacy, and they wanted to get a year off the four years' service, as they would be only allowed maintenance for three years by the Ministry of Labour.

Mr. WATSON said the discussion of the matter was quite out of order, as there was nothing before the meeting.

Mr. LANCASHIRE said there was some misunderstanding. He understood that a letter had been written to the Society.

The PRESIDENT said that he also had been informed that this application from Mr. Beggs would come before the Council to-day, but in the circumstances no action could be taken in the matter, for the present.

THE BRITISH PHARMACEUTICAL CONFERENCE.

The PRESIDENT said that since their last meeting he had attended the Conference held in Liverpool, along with other members of the Society. They must return their very best thanks for the hospitality which they had received. The meeting had been a complete success; all seemed to enjoy themselves; and he was quite sure that good work had been done. They had some very excellent papers. The good-will which prevailed was everywhere in evidence. Those who attended had carried away with them many happy recollections of the week they had spent in Liverpool.

DEATHS.

The Registrar submitted a certificate of the death of Dr. Michael McKenna, Ph.C., Dublin, and reports as to the deaths of Mr. J. H. Boardman, Ph.C., Dublin, and Mr. T. McBurnie, chemist and druggist, Newtownards.

GOVERNMENT OF IRELAND BILL.

The Registrar read the following letter from A. & J Robinson, solicitors:

We think it right to let you know that since the Government announced their intention to carry over the Bill until the Autumn Session, we have done nothing in connection with this matter. Everything suggests that the Bill will never become law, and, even if this prove incorrect, there will probably still be time to have something done in the House of Commons, and there will certainly be ample time to have the question raised in the House of Lords, and, indeed, it is likely to receive more consideration there than in the Commons.

Mr. MICHIE said the measure would never see the light of day.

Mr. LANCASHIRE thought the Bill would be passed.

Mr. HARDY: We may have a general election before then.

MR. DOIG RETIRING.

A letter was read from Mr. William Doig, in which he stated that he had decided not to seek re-election. The letter continued: "I have been on the Council about fifteen years, and have always enjoyed the friendly intercourse at the meetings, and formed many personal attachments, which will last for life, but I feel I am unable to withstand the fatigue of the journey, and have been obliged to slacken off even from my own business. I thank you personally, and the members of the Council, for the warm reception I always received from all, and, in closing, express the hope that the Registered Druggists will not suffer any loss by my retirement, and that the vacancy will be filled by one of their number."

The PRESIDENT said he was sure they would miss Mr. Doig very much. He was a man who had endeared himself to all who came in contact with him. Since he had become a member of the Council they thought the Council-meetings were not complete when he was absent. He was a thorough gentleman in every respect. He (the President) had very often travelled with him from the North, and he would miss Mr. Doig's company.

Mr. W. F. WELLS associated himself with what had been said by the President. Mr. Doig had been a very useful member of the Council; he was a thorough gentleman, and a very pleasant man to work with and to be associated with. He was sure they all regretted Mr. Doig's retirement, especially as it was due to his not being in very good health. He thought they ought to convey their sympathy to Mr. Doig and their regret at his leaving the Council.

The REGISTRAR said he understood also that Mr. William Hanna, J.P., was not going to seek re-election. Mr. Godson wrote concerning Mr. Hanna: "Mr. Hanna is from home, but I know he will not offer himself for re-election."

Mr. HARDY confirmed this.

EXAMINATION FEES AND EXAMINERS' REMUNERATION.

The Registrar submitted a letter from the Under-Secretary, Dublin Castle, transmitting the copy of a report from Sir John W. Moore. In the course of his report Sir J. W. Moore stated, "In my opinion the increase in examination fees proposed by the Council of the Pharmaceutical Society of Ireland is both necessary and, under the circumstances, reasonable." The report also suggested that the fees payable to the examiners at the Preliminary and Pharmaceutical Licence examinations should be increased.

The VICE-PRESIDENT moved, in accordance with a notice of motion handed in by him at the close of the July meeting of the Council:

That the remuneration of examiners in the case of the Preliminary and Pharmaceutical Licence examinations be increased from 5*s.* 3*d.* and 7*s.* 6*d.* to 7*s.* 6*d.* and 10*s.* 6*d.* per head respectively.

He said that, quite independently of him, a suggestion had been made in another quarter to increase the examiners' fees; and he understood that the Castle authorities were waiting for the Council to pass the resolution in order that they might approve of the resolution the Council had passed in July in reference to increasing the examination fees to be paid by candidates. It was only fair that the examiners should get a higher remuneration than they had formerly obtained.

Mr. WATSON asked was it quite clear that the Council's resolution as to increasing the examination fees would be sanctioned by the Castle?

Mr. MICHIE suggested that in order to make the matter more certain there should be an addendum to the Vice-President's resolution stating that the increased remuneration to the examiners should take effect concurrently with the increase in the examination fees.

The VICE-PRESIDENT proposed the following addendum to his resolution:

To take effect upon the new examination fees payable by Preliminary and Licence candidates coming into operation.

Mr. MICHIE seconded the resolution as amended, and it was passed.

REPORTS.

The Registrar submitted reports from the examiners upon the Preliminary, Pharmaceutical Licence, Pharmaceutical Assistant, and Registered Druggist examinations. For the Preliminary examination fifty-two candidates presented themselves, of whom twenty-five passed. For the Pharmaceutical Licence forty-seven candidates entered, of whom twenty-one passed, four with honours. For the Pharmaceutical Assistant examination six candidates presented themselves, of whom four passed. Six candidates also presented themselves for the Registered Druggist examination, and four passed.

Reports from the Law Committee, the House Committee, and the School Committee were received and adopted.

Mr. Victor E. Hanna and Mr. Charles E. Digges were appointed scrutineers of the ballot at the forthcoming election for Council.

NOTICE OF MOTION WITHDRAWN.

The PRESIDENT proposed, in accordance with notice of motion, "That a charge of half-a-crown be made in the case of a change of address in any of the Society's Registers." He said there was considerable expense in connection with changing addresses in the Registers, and they proposed to make this charge in order to curtail the expense.

Mr. WATSON said he was afraid the imposition of a charge would tend to make the Register very incorrect, as the tendency would be for men to leave the wrong address standing.

The VICE-PRESIDENT and Mr. MICHIE expressed similar views.

The PRESIDENT said he was in the hands of the meeting, but he was still of opinion that there should be a charge.

After some further discussion the President withdrew the notice of motion.

RECIPROCITY WANTED.

Dr. BARNES (Vice-President) read a letter from Mr. A. E. Ferris, M.P.S.I., who, writing from 349 High Road, Lee Green, London, S.E., stated :

Dear Dr. Barnes,—I passed the Irish Licence examination (with Honours) in April 1914, and was for a few years in business for myself in Ballybofey, co. Donegal. I sold out a few months ago, and went into partnership with my brother over here. He, of course, has the English qualification, but as we have a branch I was to take the Minor at once and manage it. I did not anticipate any difficulty in this, but when I sent in my application they refused to accept my lectures which I took at the Irish Society's Schools. It does not appear that the fact that I am already a pharmacist under the laws of the United Kingdom had any weight with the Council here, and they expect me to take my lectures all over again. To me, at least, it seems nothing less than an outrage to expect a man who is already qualified in pharmacy under British law to start again at the bottom rung. At all events, I simply cannot do it under my present circumstances. Could not some understanding be come to between the two Societies by which qualified men would be admitted to the Final examinations in Dublin and London (or Edinburgh) respectively, irrespective of the fact that there may have been differences in the curriculum? In short, can reciprocity in the lectures for Licentiates of both Societies be arranged? I think it is the simple duty of the Council of both Societies to cater for the welfare of their Licentiates, and I look to the Irish Society to help me out. I am writing you personally, as you have been responsible for many important changes in the rules of the Irish Society during your term of office, and I would be very grateful if you will bring the matter before the Council in Dublin as soon as possible. I may say that I know a good many Irish Licentiates over here who would profit by some such arrangement as I have suggested. . . . It is peculiar that at the very meeting that the English Society decided not to accept even my lectures they placed a Colonial pharmacist's name on the Register without further examination.

Mr. W. F. WELLS said Mr. Ferris was wrong about the laws of the United Kingdom. The Irish Pharmacy law did not apply to the United Kingdom.

The PRESIDENT : We are a licensing body in the United Kingdom.

Mr. WELLS : No; we are only a licensing body in Ireland.

The PRESIDENT : Is not Ireland part of the United Kingdom?

Mr. WELLS said the Irish Society were not the licensing body for the United Kingdom. They had applied several times to the Pharmaceutical Society of Great Britain, who would not take their Preliminary examination or their lectures. The Irish Society had accepted the Preliminary examination of the British Society, and also their lectures in chemistry, materia medica, and botany. They might make the suggestion again.

The Registrar was directed to write to the Registrar of the Pharmaceutical Society of Great Britain, asking whether they were now accepting the Preliminary examination of the Pharmaceutical Society of Ireland, and whether they would accept their lectures in chemistry, materia medica, and botany.

PRELIMINARY REGISTRATION.

The following submitted certificates from other bodies, and were admitted to Preliminary registration :

Mr. B. M. Laverty, Sunnyside, Monaghan; Mr. W. S. Rutledge, The Diamond, Magherafelt; Mr. Michael O'Connor, Tralee; Mr. Michael A. Tobin, Thurles; and Mr. John Carmody, Baltinglass.

The following, who submitted Army certificates, etc., were also admitted to Preliminary registration :

Mr. Percy Fenton, 110 Seville Place, Dublin; Mr. John P. S. Allen, 23 Charlemont Road, Clontarf, Dublin; and Mr. Denis Blake O'Donohoe, Clonegal, co. Carlow.

CHANGES OF ADDRESS.

The following notified changes of address :

Mr. F. J. Fitzpatrick, Ph.C., to The Pharmacy, 39 Stoneybatter, Dublin; Mr. J. W. Hogan, Ph.C., to 21 Main Street, Longford; Mr. T. Leahy, Ph.C., to Medical Hall, Baltinglass, co. Wicklow; Mr. W. D. Broderick, Ph.C., to The Modern Pharmacy, Pearse Street, Listowel; Mr. T. H. Brabazon, Ph.C., to 54 Leinster Road, Rathmines, Dublin; Mr. A. H. Leahy, Ph.C., to Harden, N.S.W., Australia; M. Stanley B. Lester, Ph.C., to Skibbereen, co. Cork; Mr. W. H. MacMullan, Ph.C., to 73 Newry Street, Banbridge, co. Down; Mr. J. Ritchie, Ph.C., to 1 Century Street, Belfast; Mr. S. Wilson, Ph.C., to Hillcrest, 11 Leinster Road West, Rathmines, Dublin; Mr. R. M. Park, Ph.C., to 9 Mellifont Avenue, Kingstown, co. Dublin; Mr. John Irwin Pollock, Ph.C., to 39 Thorndale Avenue, Belfast; Mr. James McCaughey, Ph.C., to c/o Lennon, Ltd., Port Elizabeth, South Africa; and Mr. W. V. Bell, R.D., to The Supply Store, Bailieborough, co. Cavan.

NOMINATIONS FOR MEMBERSHIP.

The following were nominated for membership :

Mr. John Corcoran, Ph.C., Wilson's Medical Hall, Main Street, Longford; Mr. Thomas Farrar, Ph.C., Milford, co. Carlow; Mr. Thomas Leahy, Ph.C., Gorry's Medical Hall, Baltinglass, co. Wicklow; and Mr. Alexander Steede, Ph.C., Craig's P.O., co. Antrim.

SEALING OF PHARMACEUTICAL LICENCES.

The following resolution was passed :

That the Pharmaceutical Licences of Messrs. R. S. Adamson, J. Bourke, T. Burke, T. J. Burke, L. F. Cockerill, J. J. Doohan, E. T. J. Gourley, T. Farrar, E. Hassett, J. F. Hogan, R. Kerr, J. W. M. MacConnell, F. J. MacMahon, J. T. Manning, J. D. McClelland, T. J. McDermott, T. McEver, T. J. McGuinness, J. Nolan, J. F. O'Neill, and R. Weir be sealed.

Council Candidates.

Nominations closed on September 20 for the annual election to the Council of the Pharmaceutical Society of Ireland. The members who retire by rotation this year are Messrs. George A. M. Lee, Wm. Doig (Belfast), G. D. Beggs, A. O. Wells, J. E. Connor, J.P. (Newry), Wm. F. Wells, Wm. Hanna, J.P. (Bangor). Mr. Doig and Mr. Hanna are not seeking re-election. Voting-papers will be distributed to members on September 25, and must be returned before noon on September 27, on which day the annual meeting of the Society will be held.

The elections are arousing great interest in the North of Ireland. The North Irish Pharmacists' Association

and the Chemist and Druggist Society of Ireland are putting forward joint candidates in the persons of Messrs. J. Carroll Culbert, M.P.S.I., Connswater, Belfast; Samuel Suffern, R.D., Shankill Road, Belfast; and Thomas F. Storey, R.D., Alfred Street. Mr. M. McDonald, M.P.S.I., Donegall Street, Belfast, is also standing as an independent candidate.

Mr. Culbert, who has been in business in Belfast as a pharmaceutical chemist on his own account for fifteen years, is a prominent official of the Local Associations and a member of the Council of the Federation. Mr. Storey is the President of the Chemists' and Druggists' Society of Ireland, and is a director of Storey, Ltd., manufacturing chemists. Mr. Suffern is past-President of the Chemists' and Druggists' Society of Ireland, and is an extensive retailer on the Shankill Road. He is also prominently identified with the Ulster Retail Drug Trade Association.

Mr. Culbert, in his address, states:

I am deeply interested in the question of pharmaceutical education, both professional and commercial, and hope, with your assistance, to see such co-ordination between the shop, the laboratory, and the technical school that the pharmacist of the future will be as familiar with modern shop systems and organisation as with scientific data—in a word, that he will take his place in the commercial community as a trained business man. Closer and more effective organisation is demanded in the drug-trade to meet the menace of interested legislation forced on us from outside, while our desires for improvement are checked and smothered. There is more than a possibility of relief in the near future, if we are quick enough to seize the opportunity, from Imperial—or other—Parliament, from some difficulties and anomalies that now trouble us, such as unqualified dispensing in public and private surgeries; the status of pharmacy in the Army and Government services generally; the illegal and dangerous handling of poisons; the payment by members and Associates of the cost incurred in carrying out the Acts. These and other questions will need to be dealt with in the light of common sense and public interest. Finally, some means will have to be found to keep every chemist in business in touch with his fellows and with the Pharmaceutical Society, and in this connection I believe that the work of the Council itself would be more vigorous if conducted in the light of day in the open Council, and less by the Committee.

Messrs. Storey and Suffern have also issued an address, in which they state:

The Chemists' and Druggists' Society of Ireland have not a direct representative on the Council, and we think you will agree it is time we had, if we are to go forward in the path of reform. Specially would we appeal for your support on behalf of the chemists and druggists and registered druggists of Ireland, who are now taking a keen interest in the affairs of the Society, and are becoming subscribers in increasing numbers, and who feel that they should have a stronger representation on the Council.

At present there are two Associate druggists on the Council, who represent about ninety subscribing Associate druggists; but Mr. Doig, one of these representative, is retiring, and does not seek re-election. If we are elected this would give us a representation of 1 to 30, and as there are about 450 pharmaceutical subscribing members this would leave them a representation of about 1 to 24.

We have been adopted by the Ulster Retail Drug Trade Association and the North Irish Pharmacists' Association, who are giving us their full support and confidence.

We are out for a strong combination of all pharmaceutical chemists, chemists and druggists, and registered druggists in Ireland for mutual benefit. If this can be attained—and we feel it can—nothing will stand in the way of reform, not only in educational, technical, and scientific matters, but, what is also very important, the trade point of view.

MEDICINAL WINES.—The basis of medicated wines varies considerably according to the country in which they are prepared. In France, Malaga, Bangul or Grenache is used; in Italy, Marsala; in Switzerland, Marsala and Samos; in Spain, Madeira; in Holland, white Spanish wine; in Austria, sherry and Tokay; in Germany, sherry; while in England port and sherry are favoured. A writer in the "Anglo-Italian Review" states that Italian wines of high medicinal value are frequently (through ignorance) neglected, preference being given by the medical profession to Marsala.

Chemists' Dental Society.

THE annual meeting of the Chemists' Dental Society of Great Britain and Ireland was held at 17 Bloomsbury Square, London, on September 16, the President (Mr. J. L. Smith, Manchester) in the chair, supported by the Vice-President (Mr. J. Hearle, Islington), Mr. J. W. Roberts (London), Mr. Sidney Davis (Chesham), Mr. S. W. Brock (Lavender Hill), Mr. J. Fairweather (Sydenham), Mr. Templar Malins (Cardiff), Mr. E. Drayton (Ealing), and Mr. Benson Harries (hon. sec., Newport, Mon.). A draft report of 1919, submitted by the hon. secretary, was adopted with slight alterations. The following is abstracted from the report: "The Council regret that as yet nothing definite has arisen from the outcome of the Dentists Act report. It is hoped in future to hold the annual and half-yearly meetings during the Chemists' Exhibition and Dental Exhibition weeks. The membership of the Society still maintains a good average; during 1919 there were thirty new members. It is under consideration by the Council that in the near future intending members shall be admitted to membership after passing an entrance examination, in addition to filling in the present form for admission to membership. Notwithstanding the extra expense in every direction, there is a substantial balance on the right side, but all cash in hand may be required for defensive purposes. Definite arrangements are looked forward to in 1920 for better facilities in order that members should be thoroughly abreast in dental science. Mr. J. E. Payne, 66 Corporation Street, Birmingham, who is secretary of the Midland School of Dental Technology, can provide full particulars. The Insurance scheme is still popular, and the inclusive fee of 1*l.* 1*s.* still covers accidents up to 100*l.*, *plus* legal expenses. The question of extending the library is under consideration, but a temporary arrangement has been made with Mr. Ellis, 9 Lovell's Court, Paternoster Row, London, E.C., for the loan of dental books on special terms to members. The rules have been thoroughly revised. Candidates must now have practised dentistry for at least five years before becoming members of the Chemists' Dental Society. The Council was approached by the National Dental Association with a view to amalgamation, but it was considered inadvisable to do so. The following officers for the ensuing session were elected: *President*, Mr. J. W. Roberts (London); *Vice-President*, Mr. Sutcliffe (Buxton); *Treasurer*, Mr. J. G. Fairweather (Sydenham); *Secretary*, Mr. Benson Harries. The above-named officers formed a deputation to the Minister of Health on September 23, the object of the visit being to try to obtain the elimination of Clause 206. The balance sheet for the year ended December 1919 is as follows:

	£	s.	d.		£	s.	d.		£	s.	d.
Balance brought forward	225	12	9	Insurance					59	3	4
Subscriptions, etc.	295	2	0	Secretarial expenses, postages, etc. ...					24	2	3
				Printing					11	1	0
				Council expenses ...					4	12	8
				H.M. Stationery Office					3	15	0
				Pharmaceutical Society Benevolent Fund					1	1	0
				Bank charges ...					0	6	3
				,, cheque book...					0	4	2
				Balance:							
				Cash at bank ...	266	19	9				
				£100 War Loan at cost ...	99	9	4				
				Deposit account, March 6	50	0	0				
									416	9	1
	£520	14	9						£520	14	9

Grocers' Exhibition.

The twenty-fourth "International Exhibition and Market" of the grocery and allied trades opened at the Royal Agricultural Hall, London, N., on September 18, and closes on September 24. The exhibition is of interest to others than those engaged in the grocery business. A series of competitions has been arranged for members of the grocery and allied trades, challenge cups, medals, diplomas, and cash prizes being awarded to the winners. Every commodity and appliance connected with the trade is to be seen, the centrepiece being a gigantic bottle of sauce which rises from the floor to the roof. A large number of exhibitors were also showing at the Confectioners' Exhibition (*C. & D.*, September 11, p. 52). Some very fine bees'-wax and some excellent samples of honey, both in comb and jar, are to be seen on one of the stands in the gallery. The following exhibits are those of chief interest to the drug trade:

Beverages and Foods.—Camwal, Ltd., have, among other articles, Aquaperia, wines, and mineral-waters on show. Coleman & Co., Ltd., have their stand entirely devoted to Wincarnis. Idris & Co., Ltd., whose stand is in the centre of the hall, are exhibiting samples of all their well-known mineral-waters, wines, and cordials. Jardox, Ltd., make a display of their "Jardox," a concentrated beef-food containing, in addition to the extractives, all the albumin and fibrin of beef. The Marmite Food Extract Co., Ltd., exhibit "Marmite," stated to be a purely vegetable extract of high dietetic value and rich in vitamines. Oxo, Ltd., have their stand arranged to display Oxo in all its forms to good advantage, Lemco and Oxo cubes being well to the fore.

Fittings, Machinery, Adjuncts, Etc.—The Automatic Scale Co., Ltd., exhibit price-indicating scales, visible weighers, etc. W. T. Avery, Ltd., have a large exhibit, comprising weighing-machines of every description. A. F. Corbett & Co. have a dainty display, comprising show-cases, shop-fittings, etc. T. N. Evans & Co., Ltd., are "practising what they preach" in advertising "Betterway" interchangeable letter signs and silent salesmen. Flugel & Co., Ltd., have soda-fountains and bottling-machines on show. Demonstrations are given, and the drinks may be sampled. John Gosheron & Co., whose stand is near the entrance to the main hall, are showing gummed tapes, sealing-machines, paper specialities, and toilet-rolls. Hancock, Corfield & Waller, Ltd., have an exhibit that is worth a visit. Metal tablets and show-cards of all descriptions are to be seen. The company also manufacture aluminium screw-caps and soap-boxes. On the Imperial Shopfitting Co.'s stand is a display of "New Way" window-trimming equipment, counters, show-cases, etc. J. G. Jackson, Ltd., have three types of machines on view at their stand—a weighing and filling machine, a filling, weighing and ramming machine, and a grinding-machine. The stand should be of particular interest to wholesale druggists. Samples of goods packed by the company are to be seen. The National Cash Register Co., Ltd., have a comprehensive exhibit of registers and files. H. C. Slingsby, whose stand is near the entrance, has a miniature store of trucks, elevators, carriers, etc. Smart & Clark, Ltd., whose stand is in the gallery, are showing gumming and labelling machines and adhesives. The exhibit is of interest to wholesalers. Southall & Smith's weighing-machines are designed to save labour. They are automatic, and either electric or non-electric. The Tan-Sad industrial chair is most comfortable, and the makers (the Tan-Sad Works) claim that it will outlast any wooden chair. It is self-adjusting, and can be folded up for transit. Venesta, Ltd., are showing plywood trolleys, skips, and trays, designed to facilitate manufacturing operations on a large scale.

Miscellaneous.—The American Cockroach and Blackbeetle Solvent Co. have an exhibit of their specialities. The firm are about to start a large advertising campaign, and make a point of the fact that their virus is forwarded by return of post, in order to ensure supplies being fresh and fully active. H. Barnett & Co. have their stand in the gallery, ropes and twines of all thicknesses and colours making an interesting display. Mr. E. Duncan Doring has an exhibit comprising all kinds of glass containers, including bottles of every description, pots, jars, and measures. W. Edge & Sons, Ltd., have a highly artistic stand for the advertisement of their "Dolly" and "Drummer" dyes. The Licences and General Insurance Co., Ltd., who occupy a stand in the gallery, are ready to advise in connection with insurance. All risks may be covered by one document. E. W. Macbay is showing a pure, tasteless, odourless, crystal-white medicinal liquid paraffin. This oil has no trace of bloom, whatever depth of it be examined. The Rider Pepper Co. have samples of all kinds of spices, whole, ground, and packed in tins or packets. H. Stevenson & Sons, Ltd., are showing cardboard and compressed-fibre containers. Their ointment-boxes are moulded in one piece, so that the bottoms cannot fall out. Sutcliffe & Bingham, Ltd., have, among other things, a display of "Kkhovah" health salt.

Among the other exhibitors are: Anglo-American Agency, Foster Clark (1920), Ltd., Caleb Duckworth, Egg Products, Ltd., Fairy Dyes, Ltd., Fassett & Johnson, Ltd., Four Oaks Spraying Machine Co., J. E. Garratt, H. N. Gilbey, Hull Oil Manufacturing Co., Ltd., Mono Service Containers, Ltd., Natural "Henegg" Co., Ltd., Nicholsons (Newcastle-on-Tyne), Ltd., and R. A. Stephenson, Ltd.

Royal Photographic Society of Great Britain.

The sixty-fifth annual exhibition is being held at the Society's home at 35 Russell Square, London, W.C., and contains much of interest to professional and amateur alike. On the pictorial side there are some very attractive examples of portraiture which reach a high level of artistic quality. An excellent portrait of the President, Dr. G. H. Rodman (No. 81), is worthy of notice. In "Vanity" (No. 40) the artist has been very successful in getting the effect of light along the edges. A child's portrait, "Daphne" (No. 21), is one of the happiest efforts seen, and in No. 84, which shows a crowd of children evidently watching a show at the seaside, the expressions of interest and character in the faces are excellent. Colour work and transparencies are not so numerous as in former years, but are somewhat larger in size and quite up to the standard in technical excellence.

On the scientific side this exhibition is particularly interesting. A series of photomicrographs of coal fossil plants, taken by Dr. Rodman, should be seen. Photomicrographs of the ova of British butterflies have won a medal for Mr. Alfred E. Tonge. The application of photography to the study of astronomy shows that the deflection of a ray of light passing through the gravitational field of the sun accords sensibly with that predicted by the Einstein Theory of Gravitation. There are some lunar records made by the Mount Wilson Observatory, Washington, which are pronounced the finest of their kind that have been produced. Radiographs include a set by Dr. Robert Knox dealing with the use of x-rays in the diagnosis of disease, and a series of prints illustrating the application of the Röntgen process in metallurgy, for disclosing faults in welding, etc.

In the museum are displayed the original instruments used by Hurter and Driffield in the researches which led to the discovery of their famous law, which expresses the relationship between exposure, development, and density. There are also to be seen some of the apparatus used by the pioneers of photography, among these is a waterlens used by Daguerre. In a note in the catalogue the committee state that they will welcome further contributions to this section. The exhibition is free to the public and will remain open till October 30. Lantern lectures will be delivered each Tuesday and Friday at 7 p.m.

Geranium Oil.

THE so-called geranium used in perfumery is not a geranium, but a pelargonium, says "La Parfumerie Française," a species comprising some 600 varieties, almost all of which are natives of the Cape. The plant cultivated in temperate, well-lighted hot-houses in the South of France, and known under the name of *Geranium rosat*, still awaits exact classification as to which species of pelargonium it belongs to, botanists being as yet unable to agree upon this point. The oil of geranium, however, is supplied by other species in addition to this one, and is largely employed in perfumery as a substitute for oil of rose, and also as an adulterant of the latter. In turn, oil of geranium is adulterated with citronella oil, turpentine, etc. The cultivation of geranium for the purpose of obtaining the oil was undertaken in the neighbourhood of Grasse towards the beginning of the past century, and in 1847 it was planted in Algeria, in the Cheragas district, and in time its cultivation has extended along the coast and into the Sahel. In 1904 Algeria exported 63,660 kilos. of oil of geranium, but in consequence of the fall in price, the amount produced fell in the following years, and in 1910 amounted to only 33,800 kilos. Forty-five years ago the cultivation of geranium was introduced into Corsica, near Bastia and Ajaccio, and it is also grown in Spain, in the provinces of Valencia and Almeria, and on the island of Bourbon, while attempts are being made to grow it in the higher regions of Madagascar. Geranium cultivation was introduced into Réunion in 1880, where it is grown at an altitude of 1,300 to 4,000 feet. In 1900 the exports of oil of geranium amounted to 9,000 kilos., and rose to a total of 63,000 kilos. in 1910, dropping, however, to 37,000 kilos. in 1913. Whereas in the region of Grasse the plant has to be renewed each year, in Algeria it grows for seven to eight years; on the other hand, the oil of geranium produced in Grasse is the most highly esteemed, and at the beginning of the present year fetched 280 francs a kilo., while the Algerian oil was quoted at 220 francs, and that of Réunion realised 80 to 180 francs a kilo. During the war the Grasse plantations have been neglected, so that during the past year only about 1,000 kilos. of oil were produced. In France the leaves are cut only once a year, whereas in Algeria, and in Réunion, it is possible to cut them three times a year, the best leaves being those of the second harvest. Thus, in Corsica to obtain 1 kilo. of oil requires 1,000 kilos. of the first-cut leaves, but only 600 kilos. of the second cut. By careful manuring it is possible to increase the yield very considerably, and in France, by treating the soil of the plantations with 70,000 kilos. of farm manure, 600 kilos. of sodium nitrate, 800 kilos. of superphosphates, and 400 kilos. of potassium chloride, it has been possible to harvest 70,000 kilos. of leaves per hectare, whereas in Réunion the yield amounts to only 25,000 kilos., largely as a result of the soil on that island being poor in phosphates. The oil of geranium is present only in the thin portion of the leaves, and does not occur in any other part of the plant. Distillation is undertaken in stills by direct heat, or by means of a current of steam, and the oil separates out from the distillate. Usually 450 kilos. of leaves are subjected to distillation in a still with a capacity of 1,400 litres, the leaves being placed on a grill; after heating for an hour and a-half, the grill is removed, and the contents of the still are again heated. The residue is used as manure. Oil of geranium differs in composition, and it is usual to designate it by its origin. Its principal constituent is geraniol, of the formula $C_{10}H_{18}O$, an alcohol which, on losing two atoms of hydrogen, yields its aldehyde, citral. On oxidation geraniol yields geranic acid $C_{10}H_{16}O_2$, and also methylheptonone, $C_8H_{14}O$. Geraniol is a colourless liquid, boiling at 230° C.; its specific gravity is 0.885. The oil also contains citronellol, $C_{10}H_{20}O$, which does not possess an agreeable odour, but its presence serves to fix the geraniol, and prevents the latter from becoming resinous, a process which alters its perfume. Owing to its varying constitution, the specific gravity of oil of geranium is liable to vary considerably according to its origin. Algerian oils have a sp. gr. of 0.890 to 0.900; the free alcohol amounting to 42 to 60 per cent., and the ethers to 22 to 27.6 per cent. Bourbon oil has a sp. gr. of 0.8915, and contains 46 per cent. free alcohol and 32 per cent. of ethers. Réunion oil contains 25 to 28 per cent. ethers, and its sp. gr. is from 0.897 to 0.905. French oils have a higher specific gravity—about 0.906.

The Uses of Chenopodium.

ON the occasion of the National Hygiene Exposition, held from August 17 to August 29, at The Hague, a special issue of the periodical "Onze Tuinen" appeared, entirely devoted to medicinal herbs.

The chief article of the issue is one by Professor P. van der Wielen, Professor of Pharmacy at the Amsterdam University, "On the Cultivation of *Chenopodium ambrosioides anthelminticum*." The seeds of this plant have been used for a long time as a vermifuge in Brazil; in 1895 a German pharmacist, who lived in Brazil, isolated the essential oil of the seeds. The plant itself also yields an essential oil. At present the plant is cultivated in large quantities in the neighbourhood of Baltimore in order to obtain the essential oil that is distilled from the entire fresh plant. Up to 1912 nobody would have reckoned chenopodium oil to be one of the indispensable medicaments; the United States Pharmacopœia is the only Pharmacopœia in which it is mentioned. In 1912, however, two Dutch physicians, both working in Delhi (Dutch East Indies), stated that this essential oil is the most effective remedy against ankylostomiasis, the hookworm disease. Originally this disease was exclusively a tropical and subtropical one, but about thirty years ago it appeared in mine-workers in Europe north of the Alps. The hookworm, which causes the disease, is called *Ankylostoma duodenale*, the male of which attains a length of 10 mm., the female 13 mm. The living hookworm is flesh-coloured, the dead one has a grey or white colour. At the foot of the hook-formed teeth big glands, each consisting of a single cell, pour their contents into the wounds which the worm makes in the mucous membranes of the intestinal canal and into the blood vessels by means of the teeth. It is supposed that the phenomena of the disease must be attributed to the mechanical changes brought about by the hookworm, as well as to a poisonous substance secreted by the worm. The worm deposits its eggs in the intestinal canal of its host. Together with the fæces, these eggs leave the body of the host. At a temperature of 25 to 30° C., the larva develops, and, after two changes of skin, enters into the body of the new host by means of vegetables, drinking-water, or through the skin. Several medicaments have been tried against the hookworm; thymol has appeared the only remedy that has been used with some success, but it is much surpassed by chenopodium oil. The observances of both Dutch physicians, mentioned above, Schüffner and Vervoort, have been confirmed by several other medical men, and at present chenopodium oil has become the specific remedy against the hookworm disease. It is, however, a dangerous remedy in the hands of the layman on account of its activity. Since it has been proved to be a medicament of such importance steps have been taken to cultivate it in Delhi and elsewhere in the Dutch East Indies, and these endeavours have met with great success. In Holland experiments have also been made with the cultivation of *Chenopodium ambrosioides* in the botanical garden of the Amsterdam University with seed obtained from Delhi. The plant has been cultivated in the open air and under glass with success. Experiments as to the quality and the yield of the oil have still to be made, but as the samples of the plant grown in the Hortus Botanicus at Amsterdam are good, healthy plants, with a very strong odour when rubbed, it is very probable that the cultivation will prove to be successful.

Marriages.

AITKEN—ROBERTSON.—At South Morningside U.F. Church, Edinburgh, on September 18, by the Rev. J. F. Philip, M.A., Alexander C. Aitken (T. & H. Smith, Ltd.) to Elizabeth McDonald (Bessie), younger daughter of Mr. Alexander Robertson, 74 Slateford Road.

DELL—DANN.—At Holy Trinity Church, Tunbridge Wells, on September 14, Frederick Barton, son of Mr. F. Barton Dell, chemist and druggist, 57 High Street, to Esther May, youngest daughter of Mrs. Dann, 46 Dudley Road.

FAVARD—WINSOR.—At the Parish Church, Paignton, on September 14, by the Rev. W. T. T. Ross, M.A., assisted by the Rev. P. E. Healy, Annet Antonio (Tony) Thompson Favard, M.P.S., of South Africa, to Edith Mary Winsor, M.P.S., second daughter of Mr. F. Winsor, Paignton.

GOLDSTRAW—MOSS.—At St. Emmanuel Church, Loughborough, on August 28, Malcolm Challinor Goldstraw, M.P.S., chemist and druggist, to Dorothy Evelyn, only daughter of Mr. George Moss, Woodthorpe, Loughborough.

HALLATT—BIBBY.—In London, recently, Charles Haydn Hallatt, chemist and druggist, 387 Attercliffe Common, Sheffield, to Miss Bibby, Hyde Park.

ROBEY—BOWN.—At the Parish Church, Clay Cross, on September 14, Samson Adolphus Robey, chemist and druggist, High Street, to Rosamond Marshall, daughter of the late Mr. Anthony Bown.

TAYLOR—TOPPING.—At St. Peter's Church, Salesbury, Blackburn, on September 16, by the Rev. T. W. Walker, M.A., Frank Taylor, M.P.S., son of Mr. William Taylor, 21 Cecil Street, Oswaldtwistle, to Edith H. Topping, eldest daughter of Mr. W. A. Topping, the Post Office, Salesbury.

Deaths.

CHEYNE.—At Marshall Street, Jeppestown, Johannesburg, on August 17, Mr. C. A. Cheyne, chemist and druggist. Mr. Cheyne, who had only recently acquired the business in Jeppestown, was ill for a short time, and the news of his death came as a great shock to his friends.

SHEPHERD.—At his residence, 6 Bon Accord Crescent, Aberdeen, on September 16, Mr. William Hendry Shepherd, retired wholesale druggist, aged seventy-one. Mr. Shepherd was a native of Aberdeen, where his father was a partner in the firm of Souter & Shepherd, wholesale druggists, Broad Street. He was taken into partnership after a course of study at Aberdeen University, and on the death of his father continued the business, in association with his brother, Mr. George Shepherd, until 1904, when the premises were acquired for a municipal scheme of rebuilding. Both the partners then retired, but Mr. W. H. Shepherd continued to take an interest in the drug-trade, and was a member of the local committee of the British Pharmaceutical Conference at its meeting in Aberdeen in 1908, as he had been when the Conference first met in the city in 1885. He was an elder in the Belmont Street U.F. Church, and was held in high esteem by all classes of the community.

Personalities.

MR. F. BOOTHROYD, Ph.C., Blackpool, has been nominated as a candidate at the forthcoming by-election in Foxhall ward.

ALDERMAN J. BIRKETT, Ph.C., Morecambe, who has been Mayor of the borough for six years, is to be requested to accept office again.

MR. JAMES H. TEBBS, an employé of Brotherton & Co., Ltd., at their Leeds ammonia distillery, is to receive the Gallant Conduct Award of the British Industrial "Safety First" Association, for the rescue of a workman at great personal risk.

AT the close of a series of lectures that he has been giving in Copenhagen, Sir Ernest Rutherford, F.R.S., received, on September 22, an honorary doctorate from Copenhagen University. Sir Ernest is well known as one of the earliest workers in radiology.

MR. A. F. MARR, chemist and druggist, Sacramento, California, has been registered a licentiate of pharmacy as a result of passing the California State Board's examination. Mr. Marr qualified as a chemist and druggist in Edinburgh in 1908, and served for nearly five years in the Army during the recent war. After his release he became manager for C. A. Stokes & Co., Fishponds, Bristol. Mr. Marr left England last March, and is now in the employ of the Owl Drug Co., the proprietors of a large "chain" of drug-stores.

ONE of the competitors in the "Victory" cup walk from London to Brighton on September 25 is Mr. Edgar C. Horton, a representative of Butler & Crispe, 80-82 Clerkenwell Road, London, E.C. 1, who are providing a motor-van for the conveyance of the walkers' spare garments. Mr. Horton has more than one success in this kind of race to his credit, having made a twelve-hours' record of 73 miles 145 yards in 1914, and having won the Surrey walking championship (with 10 miles in 1 h. 24 min. 17 sec.) last year. He is thirty-six years of age, and holds that walking is "the finest recreation going to keep one active and fit." In the present competition, refreshments are being provided *en route* by Oxo, Ltd.

Wills.

MR. HARRY HARMAN, chemist and druggist, Spittal Street, Marlow, who died intestate on June 19, left estate of the gross value of 1,173*l.* 5*s.* 9*d.*, of which 623*l.* 3*s.* 11*d.* is net personalty.

MR. EDWARD HENRY GEORGE JAMES ORANGE, chemist and druggist, 25 High Street, Aldershot, who died on July 8, left estate of the gross value of 1,902*l.* 3*s.* 4*d.*, with net personalty 1,555*l.* 17*s.* 4*d.*

MR. WILLIAM SMITH, retired chemist and druggist, 6 Grange Road, Shanklin, and who died on August 13, left estate of the gross value of 2,728*l.* 17*s.* 4*d.*, with net personalty 1,018*l.* 4*s.* 7*d.* Probate of his will has been granted to his daughter, Miss A. B. Smith, 41 Glenmore Road, Hampstead, London, N.W.

MR. JAMES HARRIS SCAMPTON, chemist and druggist, 123 Holdenhurst Road, Bournemouth, who died on May 17, left estate of the gross value of 2,276*l.* 16*s.* 8*d.*, with net personalty 1,253*l.* 7*s.* 7*d.* Probate of his will has been granted to Mr. Wm. Arthur Bingham, chemist and druggist, 58 Charminster Road, Bournemouth, and Mr. Stanley Palmer, Ilford.

MR. JOSEPH NEWTON WRIGHT, chemist and druggist, East Wonford House, Heavitree, who died on December 15, left estate of the gross value of 13,147*l.* 1*s.* 3*d.*, with net personalty 3,465*l.* 14*s.* 11*d.* Probate of his will has been granted to his son, Mr. R. N. Wright, fruit farmer, Heavitree. The testator left to his sisters Emily and Annie the proceeds of a life policy for 500*l.* and his Britannia shares, and the residue of his property to his son, his said sisters each receiving one-fourth of the income therefrom during their lives.

MR. D. WEMYSS FOSTER, chemist and druggist, has taken over the business of the late Mr. C. Hunter, chemist and druggist, 44 High Street, Dunblane.

WILLIAMSON BROTHERS, druggists' sundriesmen, 54 Lower Thames Street, London, E.C. 3, are opening up-to-date showrooms at 16 Southwark Street, S.E. 1, on September 27. Telephone: Hop 3419.

Trade Notes.

BOVRIL BONUS SCHEME.—A notice regarding the Bovril bonus scheme is given in the advertisement in this issue of Bovril, Ltd., 148-166 Old Street, City Road, London, E.C.

KOKO-MARICOPAS CO., LTD., 16 Bevis Marks, London, E.C. 3, offer a new and attractive showcard regarding Koko for the hair to chemists who send a postcard request for it.

VIOLIV COCOANUT OIL SHAMPOO POWDER.—This toilet article is made the subject of a special offer in the advertisement of Pattinson & Mackie, Albion House, 59 New Oxford Street, London, W.C. 1.

ELSWAL MAILING CASE.—Eeles, Walker & Co., Ltd., Crescent, Cambridge Street, Birmingham, give particulars of a British-made mailing case which is eminently suited for conveying bottles by post.

CHRISTMAS GOODS.—Attention is called to the announcement of Arthur Berton, Ltd., 15 and 17 Worship Street, London, E.C. 2, that a special show of Christmas novelties is being held until the end of the month.

BACTEROL antiseptics and disinfectants, hitherto distributed by Menley & James, Ltd., Menley House, 64 Hatton Garden, London, E.C. 1, will from September 30 be supplied by Bacterol, Ltd., 19 Brookside Road, Highgate, N. 19.

A. JOHNSON & CO. (LONDON), LTD., 3 Gracechurch Street, London, E.C. 3, write to point out that the word "Australian" in parentheses beneath their advertisement of Canada balsam in last week's issue is an obvious error, the drug being genuine produce of Canada.

PYORRHŒA PASTE.—Macleans, Ltd., 6 Spring Street, London, W. 2, send us a sample tube of pyorrhœa paste which it is intended to introduce for sale by chemists. The preparation is attractively packed in cartoons, printed in colours, and a showcard has been prepared which is sent out with orders. The paste retails at 1*s.* 6*d.*

THOMAS TYRER & CO., LTD., Stirling Chemical Works, Stratford, London, E. 15, inform us that their offices and warehouses are likely to be closed for stocktaking from September 30 to October 2 inclusive. During this period urgent orders only can be executed, and Messrs. Tyrer will be glad if their customers will anticipate requirements as far as possible.

AYRTON, SAUNDERS & CO., LTD., Liverpool, in their advertisement withdraw their offer of cocoanut-oil shampoo at end of September. With their "P.K.L." they send, with each half gross, a letter and blotter direct to the first fifty customers of the retailer, his name being given as the medium of further supplies. A specimen of the letter and blotter will be sent on application.

RUBBER GOODS WEEK.—The Reliance Rubber Co., Ltd., 212-213 Upper Thames Street, London, E.C. 4, are asking chemists to make the week beginning October 11 to October 16 a "Rubber Goods Week," with the idea of creating new sales for all kinds of rubber goods. Hints regarding suitable displays for the week are given in the company's autumn publication "Rubberware Sales," a copy of which will be sent to chemists who apply.

MR. W. HALSTEAD, chemist and druggist, has purchased the business of Mr. E. Henchley, chemist and druggist, 37 High Street, Sandgate.

IT is announced that Lord Leverhulme has purchased De Keyser's Hotel, London, E.C. 4, with the intention of concentrating the various London departments of Lever Bros., Ltd., under one roof. It is expected that the company will enter into occupation in November.

MR. W. W. N. BEADON, manufacturing chemist and pharmacist, has acquired from Howard Stevens & Co., Ltd., the business of Talbot Wilson, proprietors of "Moovit" corn-pencils, and has transferred it from Highgate Road, London, N.W., to 3 Kew Foot Road, Richmond, S.W.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," September 22, 1920.)

"DYSO": for tablets for improving motor spirit (1). By T. Edwards, 233 Queen's Road, Battersea, S.W. 8. 405,594.

"COMPACTOIDS"; for photographic chemicals (1). By Houghtons, Ltd., 88 High Holborn, London, W.C. 1. 406,153.

"EGGOIDS"; for anti-broody and tonic pills for fowls (2). By Squire & Co. (Birmingham), Ltd., Hazelwell Lane, Stirchley, Birmingham. 405,409.

"KLORAX"; for chemicals (2). By the British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. 1. 405,641.

"KAPSINE"; for medicines (3). By Amalgamated Enterprises, Ltd., 40 High Holborn, London, W.C. 1. 403,142.

"FIGOLETS"; for all goods (3). By Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. 404,222.

"CERESOL"; for medicinal chemicals (3). By B. Redford, Ltd., 9 Progress Buildings, Cheetham Hill Road, Manchester. 404,824.

"ALOCOL"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, London, E.C. 1. 406,220.

"STIBENYL"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., Plough Court, 37 Lombard Street, E.C. 3. 406,221.

"THIRSTLETS"; for food substances (42). By W. B. Cartwright, Ltd., Larkfield, Rawdon, near Leeds. 403,891.

"MARVEX"; for perfumery, etc. (48). By Lepers & Biron Co., Ltd., 46 Artillery Lane, Bishopsgate, London, E. 1. 404,866.

"MENTHODENE"; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London, E. 8. 405,397.

"CIMAROSA" and "NACROLINE"; for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Hove, Sussex. 405,580; 406,207.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

S/179. Harmise brand saccharin.
G/209. Puttman's "Turknit" washing squares.
S/229. The scalp "Massarger."
H/229. Sunbronze.
G/229. Gentianose and Gentiopierin (stocks)
M/219. Etabat clinical thermometers.
C/239. Union Jack corn paste.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42, Cannon Street, London, E.C. 4

Besway knife cleaner, P/119
Bu-ku kidney cure, E/179
Compressed tablet machinery, W/159 (for Portugal)
Dale's plasters, M/169
D'jerkiss toilet preparations, C/139
Pestle and mortar for power work, S/169
Ever-ready batteries, M/179
Proctor's porcelain measures, T/209
Purple flanged pill boxes, H/189 (overseas inquiry)
Tablet machinery, W/159
Vapuro sal-ammoniac, G/189
Wax figures, S/169

APPRECIATIONS.

From a well-known London firm of manufacturing chemists:

"Many thanks for your letter this morning with respect to ———. We greatly appreciate the interest you have taken in this little inquiry, and would thank you for your help."—(138/64.)

From an old-established London firm of dealers in proprietary articles, etc.:

"The service rendered by your Information Department we greatly appreciate."—(67/36.)

From a well-known manufacturing firm in the Midlands:

"You will be interested to know that we have, as a result of your courtesy, received an inquiry from these exporters. Please accept our thanks for the trouble you have taken."—(69/18.)

Observations and Reflections.

By Xrayser II.

Mr. J. P. Gilmour,

in his Bradford address, made out a very good case—indeed, an unanswerable case—for an affirmative answer to the question, "Is pharmacy played out?" The question was, indeed, hardly worth putting; to fill up the time he was expected to occupy Mr. Gilmour had to go beyond his brief, and he was hardly so successful in the attempt to show that the chemist of to-day is better off and has a higher status than his predecessor of 1868. I entered the trade in January 1862, and I venture to say that the title "chemist" stood as high in public estimation then as it does now—indeed, it was "the bubble reputation" that induced my parents to apprentice me, at a figure they could ill afford, to a pharmaceutical chemist. As for their mode of living, chemists then, perhaps, lived more simply than they do now, but so did everybody else. They spent less than they now do, but they saved as much or more. Money went a good deal further then, and if there were no millionaires among us, neither were there among our neighbours in other retail trades. As compared with the latter, we are less favourably situated for making money now than we were then. This, I assert, is the true ground of comparison between now and then.

We have Advanced,

of course, in very many respects, but the world has advanced with us, and possibly at a greater rate. If we have kept abreast of the general onward movement it is all we have done. But, says Mr. Gilmour, 60 per cent. of the pharmacists of to-day belong to the Pharmaceutical Society, as against 23 per cent. formerly. Well, I belonged to the Society years before Mr. Gilmour entered the trade, and I am not going to run it down; but how does the numerical advance of the Society prove the advance of the individual pharmacist? To belong to the Society is not quite the same thing now as it was then. "Sweets grown common lose their dear delight." "M.P.S." was never more than a formula to conjure with, and it is less so now than it ever was. Perhaps Mr. Gilmour means that we are better educated now than we were then; we may be, but that is another matter. Or does he mean (as from the context seems likely) that as a body we have more power now than we had in 1868? That is easily tested: in 1868 we got a Pharmacy Bill through Parliament; in 1919 we had a by-law forced upon us.

North London

(by which I mean London north of the Thames) has, I see, no approved school of pharmacy but the one in the Square. If, as you say, the number of such schools is not likely to be increased, students residing within this area will be badly handicapped in their studies. Not all of them will care for, or can afford, the Society's school, and it is a far cry (say) from Finchley to Clapham. In any case, one school for so large a district, a district in which students abound as much as anywhere, or more so, is sadly insufficient. I do not know why certain schools I have heard of have failed to secure approval, or on what terms approval is granted, but I foresee a considerable amount of dissatisfaction and discouragement among both students and employers while this state of things continues.

As Regards

the Latin for syrup of figs all your correspondents appear to be in the pleasing position of being right. If I may trust such Latin dictionaries as I happen to have at hand, *Ficus* may be declined either *ficus, fici*, or *ficus, ficus*, and therefore, of course, in the plural, either *ficus, ficuum*, or *fici, ficorum*. The gender and declension were, I understand, in dispute even among the ancients. Whether we choose the plural or the singular form of the name depends upon whether we follow old or contemporary usage. Formerly the plural was, I think, always used—such names as *Syrupus Violarum, Syrupus Cydoniorum, Tinctura Rosarum* were retained until 1788. Even *Syrupus e Succo Limonum* then became *Syrupus Limonis Succi*, but it reappeared in 1824 as *Syrupus Limonum*, which survived until the B.P. appeared. Returning to figs, I find *Pulpo Ficuum* in Alleyne (1733); Martindale (1904) has *Syrupus Ficorum*, and so has the Codex.

Your Preliminary Announcement

of the *C. & D. Diary* for 1921 reminds me that the jubilee of these publications occurred three years since. "The Chemists' and Druggists' Almanack and Text Book" first appeared in 1869; in 1870 the title was changed by the dropping of "Text Book"; in 1871 it became "Almanack and Diary"; in 1872 "Diary and Pharmaceutical Text Book," but its essential character was the same all along. In those days the *C. & D.* was a monthly publication, price 7*s.* 6*d.* per annum, and the Diary was a separate affair, sold in two styles at 1*s.* 2*d.* and 1*s.* 8*d.* (postage paid) respectively. The editorial notices of these early issues were extremely modest, though there was certainly no need for this, and in 1869 responsibility for its "character and appearance" was disclaimed. It was represented as a child of which the *C. & D.* was proud, but hardly entitled to take credit for.

Tobacco

may or may not be a desirable side-line for chemists now, but 300 years or so since it was much more than a side-line; in fact, tobacco-man and druggist (or drugger) were almost convertible terms, "tobacconist" then meaning not the man who sold tobacco, but the one who smoked it. The medicinal virtues attributed to the herb were what caused its use to spread so rapidly. Many physicians indeed denounced it, but its use was so common that in 1615, less than thirty years after smoking was first taught in England, the then enormous sum of 200,000*l.* is said to have been paid out of the country for it annually. It was introduced into the Pharmacopœia, and Culpeper was loud in its praise both for external and internal use. In this he followed Clusius. The only official preparation into which it entered was *Unguentum è Nicotiana*, of which he says "it would ask a whol summers day to write the particular vertues." Even Joshua Sylvester in his "Tobacco Battered and their Pipes Shattered," in which he surpasses King James himself in its denunciation, admits that it is good for rheums, but adds that many other better remedies may be had

> Than Don Tobacco's damnable infection,
> Slutting the body, slaving the Affection.

Tobacco is thus made to take precedence of all habit-forming drugs.

Scientific Farming

is the order of the day, and it is significant that two of our best weeklies not specially devoted to the subject have recently had leading articles upon it. They referred especially to the agricultural laboratories at Oxford and Cambridge, the training given in them, and the degrees in agricultural science now granted by these Universities. Rothamsted will evidently have to look to its laurels. Professor Biffen at Cambridge and Professor Somerville at Oxford are achieving great results both by their experiments and by their teaching, though the movement in which they are leaders is as yet in its infancy. Prof. Biffen is applying Mendelian doctrines not only to the breeding of stock, but to the cross-fertilisation of grain and other vegetable food-stuffs, while Prof. Somerville is giving special attention to pasturage and phosphatic manures. It is not necessary to dwell upon the bearing of these facts on the business of the country chemist and druggist, who ought, if he is alive to his own interest, to make himself competent to advise his clients and help to supply them with the chemicals they want. The analysis of soils is an obvious opening for him that would naturally lead to even more remunerative business.

A SOUTH LONDON PHARMACIST has presented a supply of children's cough-mixture to the "Save the Children Fund."

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Editorial Articles.

The Metric System in Pharmacy.

WE gave recently (*C. & D.*, September 11, p. 47) a note as to the recommendations of the Metric Committee of the Conjoint Board of Scientific Societies that the metric system should be compulsory in pharmacy. The importance of the report should not be over-estimated. The body referred to is unofficial and self-appointed, but that will not prevent metric cranks from pointing to the Committee as authoritative. The note we quoted has set some people wondering why the drug-trade should be selected as suitable for the doubtful honour of selling its goods in quantities which the public do not want and will not ask for. The following are the reasons given in the report :

> The imperfections of the British system appear most strongly in the chemical and drug trades. There is already a strong movement towards the use of the metric system in the British Pharmacopœia, and the extensive practice of photography has familiarised its devotees with the impossibility of using formulæ in British units with any convenience or certainty. It appears to the Committee that the use of the metric system should be made compulsory in the whole of the fine-chemical and drug trades with the least possible delay. The trade is necessarily conducted by people of superior education; the vessels, jars, bottles, and boxes in which the commodities are sold to the public are mostly small, and prices are relatively high. It may be anticipated that the exclusive use of the metric system could be introduced into this trade with relatively little difficulty; that its advantages would soon be apparent to all concerned; and that the experience of the system thus gained would be of educational value as a preliminary to its more general use.

It will be seen that the premisses upon which the recommendation is built are at variance with fact. It is true that the metric system has been employed for many years in analytical chemistry, but the system is not

used in pharmacy or photography to any great extent. Since the British Pharmacopœia gave its formulas in the metric system that book has become academic, and is more or less divorced from pharmacy. It will be found that for practical purposes manufacturing chemists use the previous edition, or alter in writing the formulas of the 1914 Pharmacopœia. Only on rare occasions do doctors write their prescriptions in the metric system, and it is as well that they do not, as the dangers and inconveniences of the system are much more serious where the lives of the people are concerned. It appears that the draft report was sent round for the opinions of various societies. The Chemical Society agreed with the recommendation, and so did other bodies who have no practical interests at stake. The Pharmaceutical Society's answer was : " I am not in a position to reply to your inquiries thereon. In the meantime it would not be safe to assume that my Society approves of the report as circulated." It was left to the Society of Chemical Industry to point out the danger of making the metric system compulsory in the drug-trade. This Society states that the recommendation is premature, and adds :

In the first place, metric weights and measures are by law allowed to be used in this country, and it will be found that practically every house in these trades that has any export connection is accustomed to the use of the metric system. There is thus no difficulty in obtaining goods weighed on the metric system if desired. On the other hand, it must be remembered that doctors and dispensers are working, and will for some time be working, at very high pressure, with great shortage of *personnel*, and it will not be fair to impose on them the further difficulty of being compelled to prescribe and dispense all prescriptions according to the metric system while these conditions prevail. The difficulty would be further increased if the custom generally prevalent in countries which use the metric system be adopted of weighing liquids used in pharmacy, instead of measuring them, as then the doctors and dispensers would not merely have to re-learn the whole posological table, but also learn the specific gravities of all liquid preparations. Doctors must accustom themselves to work out their prescriptions in the metric system before the drug and fine-chemical trade should be compelled to adopt this, and some considerable period of time must elapse before the profession—especially in out-of-the-way districts—will be familiar with the new Pharmacopœia. It is probable also that such a change might gravely interfere with the working of the patent and proprietary medicine trade, which is done almost entirely by the dozen and gross.

That there is no demand in this country for the metric weights and measures in purchasing chemicals and drugs is evidenced by the fact that these articles are seldom ordered in metric quantities. A well-known manufacturer, who for years gave Imperial and metric weights and measures in his list, finally abandoned quoting prices in the metric system because, as he told us, nobody ever ordered goods in metric quantities.

Scientific and Industrial Research.

The fifth annual report of the Committee for Scientific and Industrial Research covering the year ended July 31, 1920, has been issued this week. As we have suggested on previous occasions, this report is of interest to pharmacists as indicating the lines upon which grants for research in pharmaceutical science could be obtained. We still think that the money problem is the base of any such scheme for research as outlined by Mr. W. Kirkby in 1919 in his address to the British Pharmaceutical Conference. When this is solved such a scheme would stand a chance of materialising. There are now eighteen research associations in connection with industries—photography, glass, linen, cotton, wool, refractories, leather, laundry, cement, and shale oil being some of the industries which have taken advantage of the funds provided by the country for research. The report shows that much useful work has been accomplished during the year, and it should be remembered that the National Physical Laboratory and the Geological Museum are now under this Department. An institute for biochemical and biophysical research at low temperatures is to be erected at Cambridge to investigate problems of cold storage, and a radio-research laboratory is being prepared at Teddington. Referring to grants for work in the fundamental sciences, the report states : " In making grants to individual research workers we are guided not so much by the themes they propose to pursue as by the evidence we are able to obtain as to their scientific capacity. Our aim is to assist promising workers as well as promising lines of inquiry. We do not forget how the ideas of Galileo, Darwin, and Pasteur appeared to others at the time of their inception. But if our method enables us to help a young and struggling man of genius, it will not matter if we fail to anticipate the full importance of his work." We note that the Advisory Council are already suggesting that the grant of a million pounds will shortly need repeating, but we think the plea that the money should not be placed on the annual votes is rather weak, although it seems the ideal of scientific bodies to be independent of popular control such as would theoretically be involved in annual grants by the House of Commons.

As doubt is sometimes cast upon the value to industry of the Department's work, a short summary is given of practical results attained during the year; these include valuable results on the deterioration of sea-structures, on the degumming of silk, the determining of the efficiency of the open grate, production of laboratory and optical glass, colour-sensitiser dyes, tool-hardening, and the corrosion of condenser tubes. We learn that certain industries are not likely to form research associations, because of the large economic units in the industry,—which enables chemical industries (dye-making, explosives, heavy chemicals, and soap-making) to provide their own research work; but, on the other hand, smaller industries are particularly suited for the formation of research associations. The drug-trade would be classed with the smaller industries. Trade secrets, which, for example, the pottery industry is noted for, do not really exist, states the report, the various recipes for bodies and glazes differing very little from each other. But short cuts in the synthesis of dyes are often of great value to the manufacturer possessing them. Other points we have noted in reading the report are that the Government possesses one-and-a-half gram of radium bromide, which it is suggested should be released for physical-research purposes; that the petrol requirements of the United Kingdom are estimated at 250 million gallons for the present year; an improved oxygen breathing apparatus has been devised by Dr. Briggs; mutton can be frozen without damage, but beef is more difficult (recently, however, experiments have proved that, provided certain precautions are taken, beef can be frozen in such a way as to preserve completely the physical and chemical qualities of fresh beef); " black-spot " fungus of cold-stored meat grows and produces spores at a temperature at least 5° C. below freezing point; dried blood, added in small amounts to the diet of pigs, produces a remarkable increase in the rate of fattening; a process has been discovered which points to

the successful synthesis of glycerin; edible linseed oil is foreshadowed; Dr. Kellas proposes to climb Mount Kamet (25,000 feet) in the Himalayas by using oxygen mountaineering outfits; cheap enriched air for clinical use will soon be available; tests are being conducted on portable oxygen cylinders for use in hospitals; light aluminium alloys may be available for this purpose; zirconium is not a promising hardener for iron; the oils most readily sulphonated are those containing olein and oleic acid. The report (Cmd. 905) is published by the Stationery Office at 1*s*.

Foreign Trade Prospects.

When in 1917 Sir Arthur Steel Maitland created the new Joint Department of the Board of Trade and the Foreign Office, to be known as the Department of Overseas Trade (Development and Intelligence), it was decided to abolish the annual trade reports of the British Consuls, which were frequently belated and of little use to traders. In their place is now issued from time to time special reports by the various commercial counsellors and secretaries, the compilation of such reports being part of their duties. Recently the Department has published reports dealing with (1) the conditions and prospects of British trade with China; (2) the economic and financial situation of Egypt for 1919; (3) the conditions and prospects of trade in the Protectorate of South-West Africa; (4) commerce and industry of Norway to the end of 1919; (5) commercial and industrial situation of Sweden for 1919. These reports are obtainable from the Stationery Office, Kingsway, W.C., for a few pence.

There is little of direct interest to the drug-trade in any of these reports, but there are one or two points worthy of comment—*e.g.*, in China our Commercial Counsellor at Shanghai (Mr. H. H. Fox, C.M.G.), in the course of a comprehensive review, tells us that there are excellent prospects for British trade, and that "the awakening of the Chinese people to a realisation of their own backwardness has been hastened by the war." Although China has a population estimated at 350,000,000, she imported goods in 1919 to the value of only about 12*s*. 6*d*. per head, so that obviously there is room for expansion. By far the most serious competitors in the Chinese market are Japan and the United States, the effect of the former being more noticeable at some of the smaller ports, and in connection with the trade in matches, patent and proprietary medicines, and sundries, but on the whole the trade in the more important staples of commerce has not been interfered with very seriously. As regards dyes, the report indicates that during 1919 the leading position was held by American firms, and to a less extent by the Swiss and Japanese. Small shipments of British dyes have been made, but the quantities received are "hopelessly inadequate, deliveries slow and irregular, and the prospects for future deliveries unpromising." No doubt the position has improved during the present year, and as no complaint has been made in regard to quality, the outlook is bright. Germany is actively at work again in the Chinese market, and as large stocks arrived last year, competition is likely to be increasingly difficult. The report deals briefly with export trade in produce, particularly liquid egg-yolk and albumen, in which an enormous business has sprung up at high prices. Prior to the war this business was in German hands, and Germans will no doubt make strenuous efforts to obtain its reversion. It is stated that in sympathy with liquid yolk, albumen increased considerably in value, but the same amount of speculation was not in evidence, and the prices realised must be considered warranted by the demand, although America played a considerable part in raising the standard of value by refusing entry into the United States of any dried egg product containing more than one-thousandth of 1 per cent. of zinc oxide. In consequence, in order to retain American business, manufacturers were obliged to remodel their factories, and this entailed considerable expense, making it incumbent upon them to demand a higher price, which they had no difficulty in securing, and the position was that America was paying about 15 per cent. more for albumen without zinc oxide than London paid for the old product. Naturally, the new article being no more difficult to make than the old, once the necessary drying pans were secured, manufacturers were more interested in the American trade, and the production of albumen with zinc was considerably curtailed. This meant, of course, that London had either to buy zinc-free albumen at the equivalent of U.S.A. value, or increase its estimate of the usual product.

China.

The report concludes with suggestions for the development of British trade in China. More merchant firms of good standing though not necessarily large capital are wanted to act as distributors of British goods in China. They must not allow the compradores and dealers in the Treaty ports to dictate as to where and when they sell their goods. Makers are advised to deal direct with the Chinese, but should get into touch with British merchant firms in Shanghai and the principal Treaty ports.

Mr. E. H. Mulock, H.M. Commercial Agent, Cairo, in dealing with the economic and financial situation of Egypt, describes the country as "flourishing," owing to the excess of exports over imports, the considerable amount of money circulated by H.M. Forces, and the speculation in uncontrolled produce, principally cotton. A large business was done in henna leaves and powder, the exports rising from £E.5,917 in 1918 to £E.88,198 in 1919; gum acacia showed a decrease (figures not stated for 1919) compared with the previous year. Of the total imports of goods into Egypt during last year the British share was 46 per cent., or, adding the British Empire, 58 per cent. Comparison with previous years is now rendered impossible as the result of the reclassification of a large number of articles, in conformity with the Customs statistics of the United Kingdom.

Egypt.

The territory formerly known as German South-West Africa has now become a British Protectorate. It has an area of 322,400 square miles, and there is abundant evidence to show that the main desire of Germany was to establish a strong military station, and all other considerations were subordinated to this end. Prior to the war the import and export trade was almost entirely controlled by Germans, many of whom have been repatriated. During the war a considerable trade was developed with the Union of South Africa, but this trade is of a transitory character, as arrangements have been made for large orders to be placed in Germany through the medium of repatriated German subjects. Among the imports in 1918 (the latest year available) we note drugs and chemicals valued at 14,096*l*., of which 10,239*l*. was imported into the Union of South Africa and re-exported to the Protectorate, the remaining 3,857*l*. being South African produce. Among the goods supplied were medicinal preparations valued at 3,200*l*. and 1,658*l*. of apothecaries' wares, the bulk of which was imported from Germany. Mr. J. L. Wilson-Goode, H.M. Trade Commissioner, who writes the report, makes no reference to the prospects for British trade.

South-West Africa.

Mr. C. L. Paus, Commercial Secretary to H.M. Legation, Christiania, has prepared the report on Norway, which runs to 128 pages and deals exhaustively with commerce and industry during last year. On the whole, Norway had a prosperous period during the earlier part of the war, but, as in Great Britain, the high cost of living presents a serious problem. Mr. Paus supplies the following statement on the drug and chemical industries :

NORWAY.

Prior to the war the importation of drugs, etc., was principally from Germany. The reasons for this were various. In the first place, German manufacturers of chemicals used in medicine gave a guarantee that their goods corresponded with the Norwegian Pharmacopœia. In the second place, the Germans dried their herbs with steam, so that they kept their natural colour and shape, whereas air-dried herbs are stated generally to have the appearance of withered leaves. When obtaining bales of herbs from overseas the Germans, before selling the bales, sorted them; while in the bales originally received there are often to be found branches, stones, coal, etc. In the third place, German prices were as a rule lower than the prices for goods of similar quality from other countries. After the German embargo of December 1914, and during the war, the imports from Germany gradually decreased, and Norway began to supply her requirements from England, and for a time the quantities of drugs, etc., imported thence were very large, although the quality was generally far from satisfactory. (Certain articles, such as morphine, codeine, etc., were, however, of first-class quality.) During 1916-17 it became difficult to obtain licences for import from England, as stocks there had become low. Norway then began to import from America, but this was put a stop to by the entrance of that country into the war, and thenceforward, until the signing of the Washington Agreement in May 1918, there was practically no import of medical articles into Norway. During the following twelve months the imports were very large, principally from America, and stocks have been fully replenished. After the war importation from Germany was resumed, but has become less and less, even aspirin being almost unobtainable. Prices have risen so much in the United States that they are prohibitive, and it seems probable that at present, at any rate, Norway will purchase the great bulk of her medical articles in Great Britain. There have been no new Customs tariffs imposed by the Norwegian Government on drugs, but the question of establishing a Government monopoly of the importation of such articles is at present under discussion.

As regards chemicals, after reviewing the market during the war period, Mr. Paus indicates that the chemicals which Germany is now selling at lower prices than any other country are potash salts, alum, sulphate of alumina, Epsom salts, sulphuric acid, oxalic acid, and hydrochloric acid. The German prices for sulphate of soda at the place of production are also very low, but owing to the shortage of railway wagons this article is not being exported. The two chemicals which are being exported from England are chloride of lime and sulphate of soda, while Belgium controls the market for caustic soda and soda ash. Mr. Paus reports on photographic materials, remarking that "British makers' prices are still high, and the fact that they do not employ the metric system militates against their prospect of doing business." Prior to and during the war the photographic chemicals imported were almost entirely from Germany.

The information contained in the report on the commercial and industrial situation of Sweden for 1919 by H.M. Consul at Stockholm is of quite a general character, dealing with the war period rather than the year 1919, and contains no information regarding the drug and chemical trades. Sweden, however, enjoyed considerable prosperity during the war, but at the present time a wave of depression is passing over almost all trades in that country. This depression is traced to the strained condition of the money market, strikes, increased wages, and high prices for raw materials, all of which are making it exceedingly difficult for Swedish industry to compete in foreign markets. There is also a large accumulation of surplus stocks which have been brought into the country since the Armistice. These stocks still command high prices, but are being cleared slowly, as everybody is holding back from purchasing.

SWEDEN.

The Dentists Act (Amendment) Bill.

THE Minister of Health has made many promises that the Dentists Act (Amendment) Bill will be introduced in the House of Commons at an early date. It was definitely stated that it would materialise before the adjournment, but this promise was broken. We gather from a statement of the chairman of the Executive Board of the British Dental Association that the Bill has not been submitted to the Association and that the executive has no special acquaintance with the provisions of the Bill. He added, however, that the executive is prepared to submit amendments in the House of Commons or the House of Lords in accordance with the policy of the Association decided upon in 1919. This policy includes support of the preposterous demand that a chemist shall not carry on his business in connection with the practice of dentistry. The absurdity is that those chemists already on the Dentists Register may do as they like, but special provision is to be made in the case of dental chemists registered in future.

German Export Policy.

THE institute for overseas trade and world commerce of the University of Kiel recently undertook an investigation of the effects of the existing State control of commerce by the German Government, which has resulted in an interesting expression of opinion on the value and defects of the present system. With regard to the Government control of raw materials, opinion is unanimous in demanding its removal, especially since the Government is unable to seize all the available raw materials, in particular the more important ones. Further, it is impossible to effect a just repartition in considering the various applications for supplies. As an example of the mistakes attributable to State control, the purchase by the Government of large stocks of oils, fats, and glycerin is adduced, the prices of which are now double those quoted outside Germany. On June 9, 1920, linseed oil was being offered abroad at 1,500m. per 100 kilograms, while the Government distribution office was supplying it at the rate of 2,100m. Consequently, if prices are to decline, the loss must be made good by the State, which was responsible for this mistake. Import restrictions are advocated only in the case of luxury articles, as otherwise they are likely to call for reprisals on the part of foreign countries, quite apart from the danger of creating a despotism of the home associations of manufacturers and importers. It is also pointed out that the control of exports and imports is detrimental to commerce, by annoying merchants and preventing a *rapprochement*. The establishment of fixed prices for exported goods is also severely condemned, and the prohibition of exportation should be limited to a few definite articles, such as coal, chemical manures, building materials, flax, wood, etc. The same applies to the Government levy on exports, particularly so long as the authorities are powerless to suppress illicit trading with foreign countries. The system of levying the Government tax on exports is very severely criticised, and one firm states that "not even our enemies in their Versailles Peace Treaty have evolved such oppressive and complicated provisions to throttle German economic life as we have done ourselves." The greater part of the firms asked for an opinion stated that the Government measures had seriously affected their prospects of competing with foreign offers abroad. The demand is generally voiced that all State control of exports should be abolished, except for foodstuffs and coal, as well as all rationing within the country, which many consider to favour the activities of the profiteers, and especially illicit trading.

Associations' Winter Session.

Assistants' Unions.—At a meeting of the pharmacists' assistants' section of the National Warehouse and General Workers' Union, held at Newcastle-on-Tyne on September 21, a number of employés of Taylor's Drug Co., Ltd., in the North-Eastern area complained that for some considerable time they had been agitating for increased salaries, but without success. It appears that the wages paid for unskilled labour in the wholesale drug section under the national agreement between the Employers' Federation and the Warehouse Union are higher than the rates prevailing in the retail departments. The Union was called upon to take action in the matter.—At a recent meeting of the Exeter branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers, the result of an interview between Mr. Fred Hawkins, Organising Secretary, and Holman Ham & Co., Ltd., wholesale and retail chemists, with regard to the wages paid to their employés was explained to the members by Mr. Hawkins, who also gave an interesting account of the Union and its progress.

Northumberland.—A meeting of the Northumberland County Association was held at Newcastle recently. The officials and committee were re-elected *en bloc*, with the addition of two new members, Messrs. Lamb (Forest Hall) and Boon (Wallsend). Mr. C. E. Layne again consented to act as honorary solicitor and assistant secretary. The question of joining the Northern Federation was fully discussed, and in the end it was unanimously decided that the Association should not join the Federation. The employers' section considered the scheme of wages put forward by the Drug Union, and agreed that it was an impossible one so far as the county of Northumberland is concerned.

Sheffield. — A general meeting of the Sheffield Pharmaceutical and Chemical Society was held on September 15 in the Literary and Philosophical Society's rooms, Church Street, Mr. E. Preston (President) occupying the chair. A paper entitled *Should Patent Medicines be Abolished?* was read by Mr. G. F. Leighton, in which he discussed the various clauses of the Proprietary Medicines Bill. The author suggested that the time was ripe for pharmacists to unite and combat those measures which are detrimental to their interests. A discussion followed, in which Messrs. Appleton, Culverhouse, and Jackson took part. A cordial vote of thanks to Mr. Leighton was adopted on the motion of the President. The question of dispensing under the Ministry of Pensions scheme was introduced by Mr. Appleton, who made a statement to the effect that prescriptions should be written for not more than a seven days' supply of medicine, except in the case of tropical-diseases prescriptions, for which the limit is four weeks. Prescriptions not conforming to these conditions should be returned to the prescriber.—The annual meeting of the Sheffield Pharmaceutical Students' Association was held on September 17 in the Wentworth Café, Pinstone Street, with the President (Mr. Israel Best) in the chair. The chairman, in his presidential address, dealt with the question of the recently confirmed by-law relating to apothecaries' assistants. He also spoke of the prospects of a bright future for pharmaceutical students. He gave a *résumé* of the activities of the society during the past year, and regretted his inability to take up office again owing to his leaving the city shortly. The following officers were elected for the ensuing year: Mr. Reginald Fairest, *President*; Miss M. V. Graham and L. H. Chatterton, *Vice-Presidents*; Mr. C. G. Squire, *Treasurer and Librarian*; Mr. J. Fairfax Bryars, *Secretary*; and Messrs. Robert Loy and George Clarke, *Auditors*. The election of council members will take place shortly. As many of the members are leaving Sheffield to pursue their studies in other towns it was decided to arrange an outing to Wyming Brook for Thursday, September 23.

Southport.—A meeting of the Southport Pharmacists' Association was held on September 14, when a lecture on *Acquired Immunity* was given by Dr. Cronin Lowe, M.B.E., hon. pathologist, Southport Infirmary, who acted as pathologist to the New Zealand Expeditionary Force (*C. & D.*, September 18, p. 57). Professor Buchanan (Liverpool) presided over an attendance which included a number of local medical practitioners. Dr. Lowe said immunity means the power, inherent in tissue cells of the body, of protecting against bacterial foes. Such pathogenic bacteria contain essential poisons of highly complex chemical nature allied to protein, and these combined indissolubly with the protoplasm of cells, producing one of two results—(1) either the paralysis of cell functions and death of the cell, or (2) the stimulation of the cell protoplasm to the production of specific substances collectively referred to as anti-bodies, which not only neutralise the toxins responsible for their production and destroy the bacteria which carried them, but circulate in the blood and tissue fluids and protect the system against further invasion, thus producing immunity. The speaker then showed how patients become "carriers" of disease while they are apparently normal. When such cases happen to be carriers of diphtheria, typhoid, dysentery, malaria, or meningitis, their importance is readily admitted, but in the future the larger subject of carriers of influenza and the organisms of ordinary respiratory infection will have to be tackled. Immunity from disease is, strangely enough, not necessarily associated with physical fitness. Immunity presupposes some form of previous infection, either by imperceptible mild attacks, not necessarily producing clinical symptoms, but yet educating, as it were, the phagocytic powers of the body to anti-body production. Dr. Cronin Lowe then proceeded to illustrate, by means of lantern slides, the various processes and conditions brought about in connection with the subject of his lecture. The use of vaccines in the production of immunity from, and prevention of, disease is thoroughly scientific and sound. Practically all physicians admit that prophylactic inoculation is of real value, but many are less sure of the wisdom of using vaccines therapeutically during an acute attack. There are, nevertheless, points in favour of such therapeutic inoculations. Our knowledge of this subject of immunity is comparatively recent and rather nebulous. Vast opportunities lie here for scientific research, very little is yet known concerning the chemistry of the living cell and the changes accompanying its destruction and reproduction, and we look largely to the bio-chemist for the solution of many of these complex problems. Dr. Anderson (chairman of the Infirmary Medical Board) proposed a vote of thanks to Dr. Lowe, and Mr. Barton (President of the Pharmacists' Association) seconded. In replying to a vote of thanks to the chairman, Professor Buchanan showed how knowledge had progressed from the faith of the ancients to the present-day scientific facts established by investigation. Phagocytes in the blood, he said, was the most extraordinary and fascinating problem of the ages. They heard recently a celebrated Canon talking to scientific men and others about the fall of man. The story of the Creation was only the initial contents of the Great Book of the Universe that was not yet finished. It was a great thing that the blood of man was paramount in this world over all things, and this universal donor had been revealed by science in the trenches.

West Ham. —A meeting of the West Ham Association of Pharmacists was held on September 16, Mr. E. N. Lloyd in the chair. After a discussion regarding the earlier closing of shops the majority was against closing earlier than they do at present. Mr. Maxey reported on the result of the collection for the Harrison Memorial Fund, and it was decided to make a further appeal. Mr. Pratt dealt with the war service record. The Proprietary Medicines Bill was then fully discussed. The general opinion expressed was that the Bill would not only be inconvenient to pharmacists generally, but detrimental to the wholesale and retail drug-trade. It was decided to appoint a committee to deal with the question, the Association giving them full power to act. The following were elected in conjunction with the President and secretary: Messrs. Catto, Evans, Freeman, Potter, and Pratt.

To brighten aluminium ware steel wool is recommended.

The Preservation of Eggs.

In a communication from the Department of Chemistry of the Oklahoma Agricultural and Mechanical College, Messrs. H. I. Jones and R. Du Bois, in the "Journal of Industrial and Engineering Chemistry," deal with the subject of the preservation of eggs, in which some new ideas were put forward. The shell of an egg is very porous; if it were not, most eggs would not spoil. The germ could not grow without a supply of oxygen, and external contamination could not take place. Upon this fact most preserving processes depend for their efficacy. Sterilisation and defertilisation are the two main elements in the problem of preservation. The loss of eggs is due to the catabolic activity of bacteria present in the egg and to the growth of the living germ, with the consequent destruction of the substance and properties of the egg. Defertilisation means either the immediate destruction of the germinal vesicle or its inhibition and final destruction through lack of air. The use of inert gases for asphyxiation of the embryo is impracticable, and would not stop evaporation. Keeping eggs in a vacuum would deprive the germ of oxygen, but it is difficult to maintain a vacuum for any length of time, and it would greatly hasten evaporation. The majority of preservative processes have depended for their effect on the simple exclusion of air by some sealing agent.

Methods in Use.

These may be grouped into four classes, according to whether the eggs are preserved: (1) At low temperatures without preliminary treatment; (2) by packing in comparatively airtight substances; (3) in the dry state after coating with various impervious agents; and (4) in solutions with or without preliminary treatments. Cold storage at a temperature just above the freezing-point of the egg can be successfully used only when the surrounding atmosphere is dry and the eggs are kept dry. The least moisture will cause the formation of shell mould and hasten putrefaction. Packing in various materials is an old and much used preservative process. Salt, bran, sand, lime, sawdust, ashes, and sulphur are commonly used. Most of these processes have not been successful. The looser packings allow evaporation and the growth of mould, while others merely inhibit the growth of the germ. The main objection against these preservatives is the slowness of the processes and the necessity of transporting the packing materials with the eggs. Methods which consist in coating the egg with an impervious and sometimes antiseptic substance are free from this last-named objection. If eggs could simply be dipped and stored without further treatment, the process might be successful, but many processes of coating require that the eggs be individually smeared with the material, and in commercial competition cannot hope for success. No preservative solution, however effective it may be, can compete commercially with preservative coating. The necessity of keeping the eggs immersed in the liquid makes shipment burdensome and expensive. The weight of the containers themselves is a large item in the cost of transportation. For home use solutions are perhaps most convenient, requiring little care in application or packing, and easily made on the spot or else readily purchasable. The consensus of opinion indicates that no solution has yet been found which is superior to water-glass. Its solution is highly viscous, involatile, and a poor solvent of gases. The high viscosity and the slight occlusion of gases explain its success in keeping air away from eggs. The concentration generally used is a 10 per cent. solution. The eggs must not be stale or contaminated, as this method does not sterilise or inhibit bacterial growth. The eggs must be kept immersed by a weight, and cannot be kept out of the solution more than a few weeks.

Comparison of Sealing Agents.

In order to record the relative efficacy of sealing agents the water-glass coefficient was developed. Eggs were treated with various sealers and placed in an incubator at 37.5°. The materials compared were a gasoline solution of aluminium soap, a gasoline solution of paraffin, a water-glass solution, vaseline, and egg white. At the end of two weeks the aluminium-soap eggs were in perfect condition, the water-glass eggs were not good, and the rest were completely spoiled. To have found the absolute value of the various treatments—*i.e.*, the actual time of keeping—would have required several years. Hence all the results given are relative, and for relative results no absolute standards of measurements are necessary. Fresh fertile eggs were found to keep at laboratory temperature (20° C.) for as long as a month without more than a slight enlargement of the germinal cell. Water glass will keep them for at least two years, often four. Incubation simply shortens the time required for the changes to take place, without modifying them. Eggs treated in various ways and incubated were compared with eggs immersed in water-glass and kept at the same temperature. This comparison afforded a means of translating all relative results into absolute figures. The water-glass coefficient can be obtained just as the phenol coefficient for disinfectants, by finding the number of days in the incubator required for spoiling water-glass eggs, and affords a ready means of finding the absolute efficacy of any preservative. It was found that eggs in water glass at 37.5° C. spoiled in four weeks. Eggs kept in aluminium soap were perfectly fresh at the end of that time. Most preservatives have a water-glass coefficient less than 1, a very few—pre-eminently aluminium soap—greater than 1. Unless the coefficient is greater than 2, it can be determined in four to eight weeks. The average preservative power of water-glass expressed in days multiplied by the coefficient will give the time of preservation by the method in question.

The chief cause of the failure of such sealing agents as paraffin and shellac is that they crack upon cooling and drying. The failure of sealing by simple immersion in the case of these substances indicated the necessity of impregnating the eggs with sealing agents. Impregnation by differences of pressures was used. The eggs were placed in the sealing solution and the pressure was reduced to about 20 mm. So soon as the evacuation of the egg is complete, shown by no more air bubbles rising, the normal pressure is suddenly restored. This, of course, caused the sealer to be forced into the pores of the shell. At the end of four weeks' incubation the method was shown to have produced better sealing. The eggs thus treated with paraffin and with water-glass were not good, but were in much better condition than in the first test. Those sealed under pressure with aluminium soap were as fresh as ever.

Aluminium Soap.

The superiority of aluminium soap over other sealers, indicated by the previous test, seemed to justify its selection for special experiment to determine the necessary conditions for its success, its shortcomings of whatever nature, and the remedies for them. Aluminium soap can be prepared from any kind of soap. It is an odourless, tasteless solid, and makes an ideal sealer since it is without effect on the egg. But the necessity of providing some solvent complicates the problem. The necessary requirements of a solvent for the soap are: (1) That it shall dissolve the sealer easily at low temperature, (2) that it shall be volatile, and (3) that it shall be without effect upon the egg. Of the many solvents tried gasoline was selected as the only liquid worthy of consideration. Two days' incubation showed that with aluminium soap impregnation under pressure is not necessary to the best preservation. Dipping in dilute sulphuric acid has seemed to produce better results, and for the best results under the most rigorous conditions this should be the initial treatment. In every case old eggs kept as well as fresh ones. The good results achieved with them show that the method of preservation is successful with the ordinary market eggs, which fact constitutes a point of superiority over most processes.

The great shortcoming which a gasoline solution of aluminium soap has is that a slight taste of gasoline is left in the egg. This process of preservation must be

made tasteless or it cannot be used. Two methods of solving the problem were tried and both were successful. The first was to protect the eggs by a preliminary coating before sealing with the gasoline solution. The best agent for this purpose is dilute sulphuric acid. When eggs are immersed in the acid effervescence continues for about ten seconds and ceases as a coating of calcium sulphate is formed in the pores of the eggs. The calcium sulphate acts as a polariser and stops the reaction. The eggs are then dipped, without drying, into the aluminium-soap solution and placed on a special dripping-rack. The method of double sealing with sulphuric acid seems wholly satisfactory. The contents of the egg are sweet; no taste of gasoline can be detected. The extra cost of the preliminary sealing, either in time or money, is negligible.

The necessity of double dipping is without doubt a weakness, and a better solution of the problem was found. First, an unsuccessful attempt was made to purify gasoline. Gasoline is largely composed of pentane, a practically tasteless, odourless, and colourless liquid, boiling at 37°. Since gasoline dissolves aluminium soap well, it was certain that its chief constituent would do so, and the problem was to prepare chemically pure pentane on a large scale. The best method of preparing pentane seems to be the reduction of amylene. A very convenient and cheap process for making amylene or pentane has recently been devised by Roger Adams. The amylene vapours produced by Adams' pyrogenic catalytic method are passed without further purification through a heated tube (300°) containing pyrophoric nickel in the presence of hydrogen. By fractional distillation practically odourless and tasteless pentane can be produced. By this process the 125° to 130° fraction from technical fusel oil may be introduced a litre at a time, and supplied to the generator indefinitely without exhaustion of the catalyst. The cheapness with which pentane may now be made, and the facility with which the product can be used to dissolve aluminium soap seem to make this solution of the problem satisfactory in every way.

It was found that ultra-violet light does not have a destructive effect on the bacteria or on the germ in the egg.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—It was reported at a recent meeting of the Blackburn Insurance Committee that for the half-year ended June 30 the prescriptions dispensed numbered 90,290, at a cost of 3,667*l*. The average ingredient price per prescription was 4.69*d*., dispensing-fee 5.04*d*., and the average cost per insured person 15.92*d*.

London.—A meeting of the London Pharmaceutical Committee was held on September 14, Mr. A. J. Wing (Chairman) presiding. A question was raised regarding the issue of the revised London Insurance Pharmacopœia without due notice being given to chemists. The secretary was instructed to communicate with the Insurance Committee on the matter. The report of the Central Checking Bureau for May and June 1920 showed a margin of error for May of 0.13*d*. and June 0.08*d*. The secretary was instructed to issue a circular to chemists dispensing under the Ministry of Pensions, containing a copy of the recent instructions issued by the Ministry of Pensions. There were 381,853 prescriptions dispensed for May at an average of 9.53*d*. per prescription, and for June 334,588 at an average of 9.51*d*. per prescription. Particulars of the dispensing for the first two quarters of 1920 are as follows:

	1st Quarter	2nd Quarter
Total Cost	54,217*l*. 1*s*. 5*d*.	44,606*l*. 11*s*. 11*d*.
No. of Scripts	1,155,868	925,302
Average Cost per Script	11.26*d*.	11.57*d*.
No. of Prescriptions ...	1,397,783	1,125,887
Av. Cost of Prescriptions	9.31*d*.	9.51*d*.

In accordance with the minimum statistical data for the second quarter, the average cost per prescription was 9.45*d*., with an average ingredient cost of 4.48*d*. and an average dispensing fee of 4.97*d*. As a qualified chemist had commenced business in the Millwall area, the temporary establishment provided by Messrs. Keith, Abelson & Hatfield will not now be necessary. The Committee accorded a vote of thanks to these gentlemen. Certain chemists in the South-Eastern District had agreed to undertake outdoor dispensing for a Board of Guardians. The alleged inadequacy of the pharmaceutical service in the south-eastern area will be taken up by the Hours of Service Sub-Committee. A letter was received from the Local Associations Executive concerning Poor-Law dispensing, and the secretary was instructed to communicate with the various associations on the subject.—A meeting of the Insurance Committee was held on September 23, at which the reports of the various sub-committees were considered. The following is abstracted from the agenda: The Finance Sub-Committee recommended payment of accounts amounting to 69,744*l*. 13*s*. 8*d*., in which was included the sum of 28,074*l*. 4*s*. 2*d*. as payment to chemists for the medical year 1920. Payment for dispensaries under the Sanatorium Benefit Fund amounted to 1,009*l*. 5*s*. The recommendation of the Medical Benefit Sub-Committee (*C. & D.*, July 31, p. 63) that payment, at the rate of 8*d*. per script instead of 6*d*. per script, be made to persons supplying drugs and appliances was considered by the Finance Sub-Committee, who report that if this were adopted one in every twelve chemists' accounts would be overpaid. Consequently, the Finance Sub-Committee suggest that the recommendation be not acted upon. The number of persons supplying drugs and appliances on August 31 was 722, constituted as follows: Chemists in general business, 660; in institutions, 38; other persons, 24. Thirteen names were removed from the panel list, and there were 11 additions.

SCOTLAND.

September Drug Tariff.

The following are the alterations made in the Drug Tariff for September:

Drugs.—Acid. benzoic., 10½*d*. oz.; acid. citric., 7*d*. oz.; acid. salicylic., 6*d*. oz.; acid. tannic., 1*s*. 10*d*. oz.; acid. tartaric., 5*d*. oz.; ammon. brom., 6½*d*. oz.; ammon. ichthosulph. (ichthyol), 6½*d*. oz.; barbitonum, 4*s*. 2½*d*. oz.; calcii glycerophosph., 1*s*. 10½*d*. oz.; calcii lact., 1*s*. 2*d*. oz.; collodium belladon. (B.P.C.), 1*s*. 8½*d*. oz.; digitalis fol., 4*d*. oz.; ergotin (B.P. 1898), 26*s*. 7½*d*. oz.; ext. belladon. sic., 2*s*. 7*d*. oz.; ext. belladon. liq., 1*s*. 10*d*. oz.; ext. ergot., 3*s*. 7½*d*. dr.; ext. ergot. liq., 4*s*. 3½*d*. oz.; ferrum tart., 10*d*. oz.; guaiacolis carbonas (Duotal), 4*s*. oz.; inf. buchu, 2*d*. oz.; inf. ergotæ, 2½*d*. oz.; inf. senegæ, 1½*d*. oz.; lin. belladon. meth., 8½*d*. oz.; lin. camph., 6*d*. oz.; lin. terebinth., 4*d*. oz.; menthol, 5*s*. 7½*d*. oz.; mist. ammoniaci, 2*d*. oz.; ol. morrhuæ (Imperial pint), 3*s*. 4*d*.; paraldehyd., 1*s*. 1*d*. oz.; phenazon. (antipyrine), 3*s*. 0½*d*. oz.; phenolphthalein, 2*s*. 1½*d*. oz.; plumbi acet., 2*d*. oz.; potass. acetas., 8*d*. oz.; potass. brom., 4½*d*. oz.; potass. permang., 9*d*. oz.; pulv. sod. tart. effer., 2*d*. each; resorcinum, 4*s*. 2½*d*. oz.; salicin., 7*s*. 11½*d*. oz.; santonin., 13*s*. 8½*d*. dr.; sod. benz., 10*d*. oz.; sod. brom., 5½*d*. oz.; sod. nitris, 4*d*. oz.; tablettæ phenacetin (B.P.C.) (rate of), 4½*d*. doz.; tablettæ phenacetin co. (B.P.C.) (rate of), 6*d*. doz.; tinct. belladon., 7*d*. oz.; tinct. camph. co., 5*d*. oz.; tinc. guaiaci ammon., 10*d*. oz.; zinci valerian., 4*s*. 11*d*. oz. *Appliances.*—Cotton wool, 1-lb. packets, 2*s*. 1*d*. per lb. Ice-bags, 4*s*. 5½*d*. each.

The Skipton chamber of trade has decided that, during the winter, shops shall close at 7 P.M. (7.30 P.M. on Saturdays), commencing on October 2.

Copenhagen authorities (says the "New York Drug and Chemical Markets") have discovered that large quantities of cocaine and morphine have been smuggled into Denmark from Germany.

Sumatra Rubber-seed Oil.—After extensive investigations in Sumatra and the Federated Malay States, the conclusion has been reached that it would not be to the advantage of the rubber plantations to collect seed specially for the purpose of extracting oil therefrom.

Madras Cinchona Plantations.

The annual report of the Government Cinchona Department, Madras, for the year 1918-19 states that in the event of an Imperial Cinchona Department being constituted within the coming year, this will be the last report to be issued. The history of the pioneer efforts of the late Sir Clements Markham and Mr. W. G. MacIver is already too well known (says the report) to require reiteration. Every condition which could in any way further the growth of the young plants was carefully examined by these men, so that beginning with a few plants in 1861, we have now an area of about 1,400 acres fully stocked with trees. As experience was gained and the manufacture of a crude febrifuge gave way to the pure salts of quinine, the demands of the Madras Department have increased, so that at the moment it is responsible for the requirements of quinine of a very large part of India in addition to those of Madras Presidency itself. The Government plantations have never been maintained on a scale commensurate with the demands of India for quinine, and unfortunately there is no land in the proximity of the present plantations suitable for extensions. These facts, coupled with the steadily diminishing supplies of bark from private plantations, have placed India to a great extent at the mercy of the foreign grower in Java and elsewhere. The only remedy for this unsatisfactory state of affairs is to give effect at once to the policy of growing the Indian requirements of bark within the confines of the Indian Empire, and there is every justification for Government controlling the entire scheme, so that a maximum quantity of quinine may be produced at a minimum figure. In common with other places, the monsoon rainfall was scanty on the plantations, and this had naturally an adverse effect on the young plants of the new clearings. The total area under cultivation at the end of the preceding year was 1,184.54 acres; after allowing for the uprooting of old areas and the planting of new, the position at the end of the year is that there are 1,348 acres of cinchona trees. Of the several species experimented with, *Acacia melanoxylon* has best stood the short rainfall, while only a few plants of the specially selected Himalayan trees, *Schima wallichii*, *Alnus nepalensis*, and *Bucklandia populnea* survived. As there was sufficient dry bark in the godowns, the policy was continued of harvesting only a minimum amount of bark, and the quantities taken were: Dodabetta plantation, 15,441 lb.; Naduvattam plantation, 28,700 lb.; making 44,141 lb. in all. Owing to a disastrous fire which occurred at the factory on the night of February 24, and to other causes, the output of sulphate of quinine from the factory only totalled 23,242 lb. The total loss has been estimated by Mr. V. Hart, Executive Engineer, Coimbatore Division, Public Works Department, and Mr. W. P. Roberts, General Superintendent, Public Works Workshops, Madras, at half a lakh of rupees. The total quantity of bark worked up in factory was 707,194 lb., consisting of 12,800 lb. of Java-grown ledger, 408,521 lb. of locally purchased officinalis, and 285,873 lb. of Government plantation bark, of an average analysis of 3.66 per cent. of quinine sulphate, against 4.59 for the previous year. Compared with the laboratory analyses, the factory output works out at 91 per cent., which is a satisfactory figure when it is remembered that the barks worked up in the year contained much cinchonidine, the separation of which from quinine is a matter of considerable difficulty. In addition to the manufacture of quinine sulphate there were also made 90 lb. of quinine hydrochloride and 9½ lb. of quinine bihydrochloride. In order to meet a demand for quinoidine 200 lb. in tablet form was prepared, but a recent test made at the instance of the Surgeon-General has proved that quinoidine is of little or no value in cases of malaria. In all 39,633¾ lb. of factory products were sold, made up of 31,883 lb. of quinine sulphate, 1,146½ lb. of quinine hydrochloride, 50 lb. of quinine bihydrochloride, 30 lb. of quinine sulphate tablets, 225 lb. of quinoidine tablets, and 6,299¼ lb. of cinchona febrifuge. The rates for quinine sulphate were Rs. 28 to Rs. 30, quinine hydrochloride Rs. 32-8 to Rs. 33-8, quinine bihydrochloride Rs. 33-8 to Rs. 34-8, cinchona febrifuge Rs. 5 to Rs. 6, and quinoidine tablets Rs. 6 to Rs. 7, according to quantities. It will be remembered that during the months of October and November there was an alarming epidemic of influenza throughout India, and the number of ten-grain powders distributed by the agency of the post offices in Madras Presidency to the public was 2,709,700, equal to about 3,871 lb. of quinine sulphate. Considering that the cost of manufacture of one pound of quinine sulphate during the past two years has averaged about Rs. 12, there is perfect cause for Government raising the price of the post office ten-grain packet to cover the increased cost, for at present only Rs. 91 is obtained by the sale of one pound. As there is no evidence that the pice packets are being bought by other than the poorer classes, perhaps, on the whole, the charge of one pice for ten grains should be retained, even though a loss amounting to Rs. 14,000 was incurred under this head. As the retail price of quinine sulphate rose as high as Rs. 5-8-0 per ounce, or Rs. 88 per pound, owing to scarcity of supplies, the public have cause to be grateful to Government for establishing the pice-packet system.

Uses for Resin in India.

In the course of a pamphlet issued by the National Turpentine and Rosin Bureau, New Orleans, U.S.A., it is stated that in the early days of the American "naval stores" industry producers did not know what to do with their resin, as there was only a demand for the turpentine. Consequently at the early primitive "stills" set up in the forests to manufacture turpentine, the resin was dumped in adjacent streams or in holes dug in the ground. Such deposits later came to be known as resin "mines," and when resin became established as an article of value many persons made small fortunes by locating these "mines" and marketing their contents. Matters have changed since then, and very large quantities are now used in soap factories, paper concerns, and paint and varnish manufacturers. A writer in the "Indian Forester" points out that India appears to be going through the phase America went through years ago, and is faced with a brisk demand for turpentine, a demand considerably in excess of the supply at present, and a lagging demand for resin, resulting in heavy stocks in hand of the latter product at the present time. It is pointed out that there are several remedies, the simplest being to export the surplus resin. But as resin is used in many industries, it is suggested that the sounder policy is to encourage those industries in India and thus reduce the long list of articles India has to import. Acting on this idea the Jallo Rosin and Turpentine Factory started on a commercial scale experiments in the destructive distillation of resin as the process yields resin gas, pinolene or resin spirit, resin oils and pitch. These commodities are used, in the order named, for illuminating purposes, cleaning and burning processes, lubricants and lubricating greases, caulking and insulating purposes. The experiments at Jallo were successful and the processes found to be within the scope of ability offered by Indian labour. The yield and quality of the products were satisfactory and the processes of purification not unduly complicated. The co-operation of the industrial laboratory of the Forman Christian College, Lahore, has been secured, and so within a few months data will be available to go ahead on a commercial scale. It is, however, not the work of the Forest Department. The department can provide the raw material and, if necessary, demonstrate the practicability of process in a pioneer factory. The rest must be left to private enterprise. The note is intended to show the two courses open to India:—(1) To export its surplus resin, leaving India richer in rupees and poorer in industrial expansion; (2) to work up its surplus resin into products which India requires, and which products have at present to be imported, thus doing something to develop India industrially and leaving it not only richer in rupees but in industrial expansion as well.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Sept. 23.

THERE is little of interest to report this week, the markets being overshadowed by the unfavourable attitude of the coal-miners, which affects business in the provinces as well as the Metropolis, and with continued falling prices only urgent requirements are being filled. Among chemicals, reductions have been made in citric acid, tartaric acid and cream of tartar, potassium and ammonium bromide, methyl sulphonal, calcium lactate, and creosote carbonate. English makers maintain full rates for salicylates, but dealers in some instances are easier again. The American makers have reduced their prices, but they are still above the London parity. Cocaine is weak in view of the heavy stocks of raw material in Holland and the legislative restrictions. Among drugs, menthol is lower again and Japanese refined camphor is easier. Senega has been selling at better prices on spot. Cod-liver oil is easier. English castor oil has been advanced 2*l*. per ton, as the Government stocks appear to have been disposed of. Linseed is firmer and fenugreek the turn easier.

Higher	Firmer	Easier	Lower
Castor oil Culvers-root Elecampane-root Senega	Amyl salicylate Arsenic Coriander-seed (good) Ginger (Jp.) Linseed	Almond oil (essent.) Antimony (Ch. cr.) Aubepine Calcium lactate Camphor (Jp. ref. slabs) Citral Citronella oil (Cey.) Cod-liver oil Copaiba (Cent. Amer.) Creosote carbonate Fenugreek-seed Hydroquinone Lemon oil Pepper, black Valerian oil	Acetic acid Bromstyrol Camphor oil (Jp.) Citric acid Cocaine Coumarin Cream of tartar Indol Isinglass Lemongrass oil Liquorice-juice Menthol Methyl sulphonal Mint oil (Jp.) Musk ambrette Potash bromide Tartaric acid Terpineol Vanillin

Cablegram.

NEW YORK, September 22.—Business is active. Salicylates are lower, salicylic acid having been reduced to 50c. per lb., sodium salicylate to 55c., and methyl salicylate to 75c. per lb. Salol and aspirin are unchanged. Menthol has been reduced to $7.40. Curaçao aloes is lower at 9½c. per lb., jalap has been reduced to 50c., balsam tolu to 80c. (10c. cheaper), and balsam Peru is 15c. lower at $3.60 per lb.

ACETIC ACID is on the weak side, with 99 to 100 per cent. glacial obtainable at about 100*l*. to 105*l*. per ton in carboys, and 80 per cent. pure at 85*l*. per ton.

ALBUMEN.—Sales of prime Chinese hen have been made at 4*s*. 10*d*. per lb. on the spot, and for October-December shipment 4*s*. 8½*d*. c.i.f. is quoted.

ALMONDS.—A weekly review of the markets says: "Jordan are rather dearer, and the demand has been fairly active, although the quantities disposed of have not been large. Valencia have sold fairly well for arrival; spot supplies are limited, and prices have been well maintained. Majorca are dearer for forward delivery, but are still cheaper than Sicilian, prices for which remain high. The greatest advance, however, has been in Morocco almonds, parcels with a small percentage of bitter being held for 180*s*., a rise of about 20*s*. per cwt. There has been a good inquiry, but orders have been difficult to fill, owing to the small stocks on the spot."

ANISE is unchanged at 88*s*. per cwt. for Russian and 89*s*. to 92*s*. for Spanish, but no business has transpired.

ANTIMONY.—While there is no alteration in English refined, the market all round is extremely slow, and Chinese crude has proved again distinctly easier, while offers have been made this week at about 35*l*. per ton for warehouse lots and also c.i.f. to arrive. There seems to be more anxiety to get rid of old stocks in the Far East.

ARSENIC.—The tendency has been again upward, prices for white Cornish ranging up to 76*l*. per ton delivered London. There is very little foreign material coming forward at present, and the demand continues good. The relatively high prices are an incentive for some of the chief Cornish mines to make the most of their opportunities, although their operations otherwise are handicapped by high costs.

BALSAMS.—*Canada* is steady, holders asking 11*s*. per lb. Filtered Central American *Copaiba* in cases is quoted at 3*s*. 9*d*., and filtered Maranham in cases at 4*s*. 6*d*.; filtered Para in cases is 3*s*. 1*d*. per lb. *Peru* of direct import is quoted at 25*s*. per lb. on spot.

BISMUTH.—The tone is steady, market conditions being rather stereotyped with the price of the "ring" maintained at 12*s*. 6*d*. per lb. The outlet is apparently quite good. Metallic bismuth continues scarce. Apart from the regular supply of Bolivian raw material, fairly large quantities of ore have been coming from the Far East, chiefly China.

BROMIDES continue weak, with potassium crystals and powder offering at 2*s*. per lb. and slightly less for quantity. Ammonium is selling at 2*s*. 9*d*. and below, and sodium at 2*s*. 8*d*. per lb. About 1,400 packages bromine have arrived from the Continent this week.

CALCIUM LACTATE is about 9*d*. per lb. cheaper, importers offering at from 4*s*. 3*d*. to 4*s*. 9*d*. per lb.

CAMPHOR (REFINED) is quiet and easier, with spot sales of Japanese slabs at 6*s*. per lb.

CANARY-SEED.—A few orders have been executed at 140*s*. per quarter for cleaned River Plate, and at 170*s*. to 172*s*. 6*d*. for good Morocco, being the recent quotations.

CARAWAY-SEED sells slowly at 20*s*. to 21*s*. per cwt. for North African stalky, and at 40*s*. for good Dutch, being unchanged.

CARBOLIC ACID is slow of sale at from 1*s*. 2*d*. to 1*s*. 3*d*. per lb. for 39° to 40° C. ice crystals in bulk packing.

CASTOR OIL is 2*l*. per ton dearer at 82*l*. per ton for English medicinal in barrels; first pressing is 77*l*., and second pressing 72*l*. per ton, barrels included, ex works Hull.

CHILLIES.—Sales of East African have lately been made at 120*s*. per cwt.

CINCHONA.—At Amsterdam, on October 6, 1,165 packages Java pharmaceutical bark, weighing 65,562 kilos., and 200 packages Ceylon pharmaceutical, weighing 4,211 kilos., will be offered by auction.

CITRIC ACID is again cheaper, with spot sellers at 3*s*. 9*d*. per lb.

CLOVES are firm, with spot sales of fair Zanzibar at 1*s*. 8*d*. per lb., and barely fair at 1*s*. 7½*d*.

COCA-LEAVES.—At the Amsterdam auction on October 6, 6,821 packages Java leaf will be offered, weighing 375,133 kilos. The exports from Java from January to March 1920 compared with the corresponding quarter of 1919 were as follows:

	1919 Kilos.	1920 Kilos.
Netherlands	78,466	489,741
Great Britain	3,954	770
U.S.A.	72,792	2,270
Japan	2,002	65,347
	157,214	558,128

COCAINE is again on the easier side, with hydrochloride obtainable at from about 23*s*. 6*d*. to 24*s*. 6*d*. per oz. in

single tins. The *Oriana* has brought twelve cases crude cocaine from Callao to Liverpool.

COD-LIVER OIL.—Finest Lofoten non-congealing medicinal oil is offered by London agents at 265*s*. per barrel c.i.f. There is little doing at the moment.

COPPER SULPHATE.—A few inquiries have come along from Spain for limited quantities for deliveries over the end of this year, but general export business leaves much to be desired, although some attempts have been made by merchants to win back old customers. Exchange difficulties partly account for the poor state of overseas' business. Under normal conditions a fair demand is experienced at this time of year for the Balkan States, but there is not much prospect of business coming along so far. Quotations continue widely divergent, while the price of the metal has fallen back considerably, chiefly because of a lull in the demand and some rally in the American exchange. A fair quotation for casks f.o.b. Liverpool is about 41*l*. to 42*l*., less 5 per cent. The importation into Greece was removed on September 10.

CORIANDER-SEED.—Good bright sound seed is scarce, and holders are asking 22*s*. per cwt., after 21*s*. having been paid. Inferior qualities are slow of sale and unchanged at 15*s*. to 19*s*., according to quality.

CREAM OF TARTAR is only in slight demand, and sellers offer at the lower rate of 250*s*. per cwt. for 99 to 100 per cent. powder.

CREOSOTE CARBONATE is cheaper, importers offering at from 23*s*. 6*d*. to 25*s*. per lb.

EGG PRODUCTS are quiet. Chinese liquid hen-yolk is offered at 90*s*. per cwt. for old and 115*s*. for prime new season's; to arrive, August-October and September-November shipment has been sold at 100*s*. per cwt. c.i.f. Dried yolk is offered at 10*d*.; sprayed whole egg is 1*s*. 10*d*., and native dried whole egg is 10½*d*. per lb. spot.

ELECAMPANE.—Spot holders ask the higher rate of 1*s*. 10*d*. per lb.

ERGOT is quiet, with prices for shipment still inclined to be irregular at from 15*s*. per lb. c.i.f. for Spanish. The *Vard*, from Oporto, has brought 34 packages to London. The Board of Trade (Licensing Section) announce that as from September 16, 1920, ergot of rye and the liquid extract of ergot have been removed from the list of prohibited exports.

FARINA is steady, Japanese No. 1 offering at from 31*s*. 6*d*. to 32*s*. For shipment, September-November is quoted at 30*s*. 6*d*. c.i.f. The value of sweet potato-flour is 30*s*. 6*d*.

FENUGREEK-SEED is the turn easier at 15*s*. 6*d*. to 15*s*. 9*d*. per cwt., according to quantity, for fair Morocco.

GENTIAN is steady, offering at 57*s*. 6*d*. to 60*s*. per cwt. on the spot.

HYDROQUINONE.—To arrive, importers offer at the easier rate of 9*s*. per lb. c.i.f., the spot value being from 9*s*. to 10*s*. per lb.

ISINGLASS.—At auction 779 packages offered and met with a slow demand at irregular prices. West Indian and Brazil was 6*d*. per lb. lower. Bombay and Penang were lower. Macaraibo is dearer. Saigon was higher for long leaf, but oval was cheaper.

LACTIC ACID, B.P. quality, is quoted at from 5*s*. 6*d*. to 6*s*. per lb., and 5*s*. for quantity.

LINSEED is firmer at 45*s*. to 47*s*. 6*d*. per cwt. for good qualities.

LINSEED OIL.—Very firm conditions have prevailed again this week, the supplies available in crushers' hands being only about sufficient to meet current trade needs, although exports from Hull have been distinctly lighter for some weeks past. The tendency of raw material has likewise remained in sellers' favour. London spot closed at 82*l*. 10*s*. per ton naked, and Hull at 78*l*. 10*s*. per ton.

LIQUORICE-JUICE, in conjunction with most other Italian produce, has declined of late, block juice offering at from 195*s*. to 200*s*. per cwt., according to quantity and seller.

LYCOPODIUM is steady at from 16*s*. 3*d*. to 16*s*. 6*d*. per lb. on the spot.

MENTHOL is lower, with spot sales of Kobayashi-Suzuki at from 30*s*. 6*d*. down to 28*s*. 6*d*. per lb.

METHYL SULPHONAL is again lower, importers offering at from 34*s*. to 35*s*. per lb.

PEPPER is slightly easier, fair black Singapore having been sold at from 6⅞*d*. to 6¾*d*. per lb.; sales to arrive include September-November and October-December shipment at 6¾*d*. per lb. c.i.f. Lampong on spot is ½*d*. per lb. lower at 7*d*., and October-December is 6¾*d*. c.i.f. Tellicherry is 7¾*d*. and Aleppy is 7*d*. per lb. spot. *White* pepper is steady; the spot value of fair Muntok being 1*s*. 3½*d*.; to arrive, the sales include September-November and October-December shipment at 1*s*. 1½*d*. to 1*s*. 1¼*d*. per lb. c.i.f. Singapore is 1*s*. 2½*d*. spot, and September-November shipment is quoted at 1*s*. 0½*d*. c.i.f.

PIMENTO is quiet, a few lots having changed hands at 4*d*. per lb.

QUICKSILVER.—The general trade demand has remained very restricted, and there seems plenty of competition to secure orders at between 18*l*. 5*s*. and 18*l*. per bottle. A little demand is reported from the Eastern markets, but this is rather of a tentative character. A fair number of Italian lots are available in dealers' hands.

SAFFRON.—Best qualities are said to be very scarce. Price on spot is unchanged at 72*s*. 6*d*. per lb. for finest Valencia. Information regarding the new Spanish crop, which is due for collection in about six weeks' time, has not yet been received.

SALICYLATES.—Prices have been further reduced by American makers, in spite of which the London parity is still below that of the United States. English makers quote B.P. salicylic-acid powder at from 3*s*. to 3*s*. 3*d*. per lb. in ton lots, with dealers offering at about 6*d*. per lb. less. It is understood that the home production and imports have fallen off of late, and it would be difficult to find a seller of, say, five or ten tons. English makers quote sodium salicylate at 4*s*. 3*d*. in 5-cwt. lots, with second-hands quoting from 3*s*. 9*d*. per lb. upwards.

SENEGA is firmer, spot sales having been made at 7*s*. 10½*d*. per lb., with 8*s*. asked; for shipment 7*s*. 6*d*. c.i.f. is quoted. New York reports (September 2) that the spot price had advanced to $1.25, there is now little offering from the North-West, and unless supplies are being purposely held back the crop this season is surprisingly small. There has been comparatively little buying by consumers abroad, and as they will be compelled to come into the market later on, a considerable advance may take place unless further stocks become available.

SHELLAC is steady, the spot value of usual standard TN orange quality being 640*s*. per cwt. Fine orange is 775*s*.; fine seconds, 725*s*. to 750*s*.; pure button, 750*s*.; AC cakey, 560*s*.; GAL, 550*s*.; and IG, 500*s*. Prices for delivery have been irregular, the sales including October at from 525*s*. to 570*s*., and December at from 525*s*. to 540*s*.

SILVER NITRATE.—The prices quoted for crystals on September 22, based on a metal price of 60*d*., are as follows: In quantities of 25 oz., 3*s*. 7¼*d*. per oz.; 50 oz., 3*s*. 6¾*d*.; 100 oz., 3*s*. 6¼*d*.; 250 oz., 3*s*. 5¾*d*.; 500 oz., 3*s*. 5¼*d*.

SODA HYPOSULPHITE.—Fair arrivals have taken place recently, but the adverse rate of the American exchange keeps prices on the firm side. Pea crystals are quoted on spot at 40*s*. to 45*s*. per cwt.

SUGAR.—The Ministry of Food have issued a lengthy statement on the sugar situation, in the course of which they state that "how far the fall may go is uncertain." But present indications do not suggest that the prices to be fixed for the next four weekly periods, beginning October 4, will be lower than those of the current period.

SULPHUR.—Sicilian flowers offer at 23*l*. 10*s*. to 24*l*. 10*s*. per ton and roll at 24*l*. ex wharf London.

TARTARIC ACID is cheaper, with spot sellers at 2*s*. 9*d*. per lb.

THYMOL is offered on spot at 47*s*. 6*d*. per lb. for British made.

TURPENTINE.—The trade demand has been fairly active

and more animation has been experienced in forward positions, the premium on which seems like becoming accentuated. The warehouse stocks have been increased moderately, but there is no indication of excessive supplies, and the feeling seems in the direction of still higher prices. American on the spot closes at 145*s*. 9*d*.

WAX, BEES'.—Sales of East African have been made at 6*l*. 2*s*. 6*d*. per cwt.

ZINC PRODUCTS.—The fact deserves notice that the position of raw zinc is improving. The demand has revived moderately, while the recent depression caused our imports to fall to rather low dimensions, and the price has already rallied some 2*l*. 15*s*. per ton from the worst. This has strengthened the feeling somewhat in allied products, but so far quotations for zinc oxide have undergone practically no alteration, the terms of the largest makers being as before, ranging from 70*l*. a ton for white seal 99.9 per cent. ZnO, down to 60*l*. for red seal 99.7 per cent. net free on rails.

Essential Oils Market.

BUSINESS is quite of a retail character, and there is little inducement for dealers to increase their stocks, which appear to be more than sufficient for present requirements. Some dealers are refraining from giving quotations owing to the unsettled state of the market. Star anise oil continues to show a slight up-and-down tendency. Sicilian oils are dull; bergamot on spot appears to be on the easy side, despite higher quotations from the source. Lemon is also easier, while there is practically no demand for orange. Essential almond oil is weaker, and Japanese white essential oil of camphor has declined to the price of brown. Cassia shows very little change. Cedarwood on spot is scarce, with quotations practically nominal. Ceylon citronella has declined slightly, and Java oil seems to be following. A slightly firmer tendency may be expected in clove oil, in sympathy with the spice. Eucalyptus also is expected to rise in price, but stocks appear to be well distributed and of fair size. Gingergrass is still very scarce and nominal. Lemongrass is lower. Japanese mint is again weaker. Patchouli oil is cheaper forward, but spot prices are still high. Tansy oil has been in request and seems scarce on spot, and valerian oil is a shade easier.

ALMOND.—Essential oil, "sine acid. prussic.," is on the easy side at 37*s*. per lb. for spot.

ANGELICA.—The spot price is nominal at 100*s*. per lb.

ANISE, STAR.—Sales of "Red ship" brand were made at 4*s*. per lb. last week, but the price now quoted is 4*s*. 1½*d*. per lb. in single cases and 4*s*. 1*d*. for larger quantities.

BERGAMOT.—There are said to be fair stocks on the spot at present, and prices quoted for 37 to 38 per cent. l.a. range from 31*s*. to 35*s*. per lb., according to seller. At the source, however, stocks are small and in the hands of strong holders. For prompt shipment from 34*s*. to 36*s*. c.i.f. is quoted.

BOIS DE ROSE (FEMELLE).—Spot holders are quoting from 47*s*. 6*d*. to 52*s*. 6*d*. per lb.

CAMPHOR.—Japanese essential oil, white, is lower, with spot holders quoting 140*s*. to 145*s*. per cwt. in cases. Brown is quoted at 140*s*. to 142*s*. 6*d*., but some dealers are willing to shade slightly.

CARAWAY.—Rectified is quoted at 11*s*. per lb. for spot, and crude at 10*s*. 3*d*., with forward prices at about 1*s*. per lb. less.

CASSIA continues dull of sale, with sellers of 80 to 85 per cent. c.a. at 7*s*. 7½*d*. per lb.

CEDARWOOD is quoted variously at 3*s*. 6*d*. to 3*s*. 8*d*. per lb. spot, with slightly lower for forward.

CINNAMON.—Spot holders of Ceylon leaf quote 9½*d*. to 10*d*. per oz. To arrive 8*d*. to 8½*d*. c.i.f. is mentioned.

CITRONELLA.—Ceylon is easier at 2*s*. 5*d*. to 2*s*. 6*d*. per lb. on the spot, and Java is steady at 5*s*. to 5*s*. 3*d*. per lb. An offer is made at 4*s*. 9*d*. c.i.f. London in ton lots, prompt shipment from Holland.

CLOVE is slightly firmer, with distillers selling at 14*s*. 6*d*. to 14*s*. 9*d*. per lb.

CORIANDER.—Spot lots are obtainable at 120*s*. per lb.

CUMIN is offered at 27*s*. per lb. in one direction.

EUCALYPTUS, B.P., shows a firm tendency in view of seasonal requirements, and spot holders now quote from 3*s*. 2*d*. to 3*s*. 4*d*. per lb. for 70 to 75 per cent. cineol.

FENNEL.—Sweet is obtainable at 8*s*. per lb. in one direction.

GERANIUM.—African is said to be scarce, but sales have been made at 42*s*. Bourbon varies from 40*s*. to 43*s*. per lb., according to seller.

GINGERGRASS.—Spot supplies are still very limited, and prices are nominal at 21*s*. to 22*s*. per lb.

LAVENDER is unchanged on spot, and quiet at 40*s*. to 45*s*. per lb., for usual ester value. According to a recent report, while the Grasse Syndicate is said to be endeavouring to raise the price to 300 fr.—310 fr. per kilo. for new crop, it is possible to obtain supplies at 240 fr. The actual cost to distillers is said to be about 200 fr.

LEMON continues dull, with the usual brands being offered at from 5*s*. 6*d*. to 6*s*. 3*d*. per lb. on the spot, and at from 5*s*. 6*d*. to 6*s*. c.i.f. to arrive. A report from Palermo, dated September 16, states:

A few orders have come in, causing a somewhat better feeling for the article, which, however, as far as prices in foreign currency are concerned, is almost neutralised by the higher levels to which our exchange has risen. Inquiries are coming in also for new crop oil, shipment January and forward, for which, however, sellers maintain a very reserved attitude.

LEMONGRASS.—Cochin is lower at 9*d*. to 10*d*. per oz. spot, and c.i.f. is quoted about 6½*d*. to 7*d*.

LIME is nominal, fair West Indian distilled offering at 6*s*. per lb. The *Spheroid* has brought 158 cases lime oil from the West Indies to London.

MANDARIN.—There is an offer of "guaranteed absolutely pure" at 33*s*. 1*d*. per lb. c.i.f. London for October-November shipment. Spot holders quote from 55*s*. per lb.

MINT.—Japanese dementholised shows a further decline, with spot sales of Kobayashi-Suzuki at 7*s*. to 6*s*. 9*d*. per lb., and further sellers at 6*s*. 7½*d*.

ORANGE.—Calabrian is dull, with spot prices unchanged at about 34*s*. to 35*s*. per lb. Good quality oil afloat is offered at 28*s*., but c.i.f. quotations are about 30*s*. per lb. Bitter is offered at 17*s*. 3*d*. c.i.f.

PALMAROSA has been offered this week at 23*s*. per lb., with dealers willing to shade for larger quantities.

PATCHOULI is scarce on spot and firm at 88*s*. to 90*s*., with even higher quotations being given. Forward quotations are lower, consignments afloat and October-November shipment being offered at 75*s*. to 77*s*. per lb.

PEPPERMINT.—B.P. Dutch grown is offered on spot at from 22*s*. 6*d*. to 23*s*. per lb. for double rectified. "Wayne County" is quoted at 40*s*., and H.G.H. at 64*s*. spot, London terms.

PETITGRAIN.—Immediate shipment from France is offered at 24*s*. to 26*s*. per lb. for Paraguayan. The spot value is given as 27*s*. 6*d*. to 28*s*.

ROSEMARY.—Fair sales of Spanish have been made at 4*s*. per lb. spot, and it is still possible to buy round lots at this figure, although up to 4*s*. 9*d*. is given as the spot price.

SAVIN.—A spot holder is quoting 35*s*. per lb.

SPIKE.—Spanish new crop to arrive is offered at 7*s*. 6*d*. per lb. ex wharf London.

TANSY.—There appears to be a fair demand for export, and spot quantities are practically unobtainable, except in small lots. Some Dutch distillers are unable to supply. For parcels afloat 50*s*. per lb. is asked in one direction.

VALERIAN is easier at 24*s*. per lb. spot.

Synthetic and Aromatic Chemicals.

SYNTHETIC PRODUCTS are extremely dull, but prices are being well maintained, although a gradual decline is noticeable here and there. Aubepine and bromstyrol are easier, the latter article being in good supply. Citral, coumarin, and indol are also cheaper.

AUBEPINE is easier on spot, with sellers at 30*s*. to 32*s*. per lb. AMYL SALICYLATE is firmer at 12*s*. BROMSTYROL is lower at 30*s*. to 32*s*. per lb. BENZALDEHYDE is irregularly

quoted at 5*s.* 9*d.* and upwards per lb. There are sellers of good quality BENZYL ACETATE at 9*s.* per lb. BENZYL BENZOATE has sold at 12*s.* to 12*s.* 6*d.* per lb. CINNAMIC ALDEHYDE to arrive is offered at 100*s.* per lb. in one direction. CITRAL is a shade easier at 27*s.* 6*d.* to 30*s.* COUMARIN is lower at from 24*s.* to 29*s.* per lb. spot, and to arrive is offered at 26*s.* to 27*s.* 6*d.* For EUGENOL 22*s.* 6*d.* to 24*s.* is quoted, and for ISO-EUGENOL 27*s.* 6*d.* to 32*s.* HELIOTROPINE varies from 27*s.* 6*d.* to 30*s.* per lb. and upwards spot, while a commercial variety can be bought at 22*s.* 6*d.* INDOL is lower, with spot sellers at 440*s.* per lb., to arrive being quoted at 400*s.* IONONES are offered at from 90*s.* to 120*s.* per lb., according to variety and seller. METHYL ANTHRANILATE is lower at 29*s.* to 30*s.* per lb. spot. METHYL SALICYLATE is selling freely at 4*s.* per lb. Spot sellers of MUSK AMBRETTE quote from 300*s.* to 315*s.* per lb. for 100 per cent. MUSK XYLOL is easier at 40*s.* 6*d.* to 43*s.* per lb. For PHENYL ETHYL ALCOHOL 90*s.* per lb. is asked for spot, and for PHENYL ACETIC ALDEHYDE 75*s.* TERPINEOL varies from 5*s.* to 6*s.*, according to seller, the forward price being given as 5*s.* 6*d.* VANILLIN can be had at 61*s.* per lb., being cheaper.

German Drug and Chemical Markets.

During the past few weeks an appreciable adjustment has taken place between the high prices quoted by manufacturers and the low quotations of dealers, and consequently it is once more possible to speak of normal market prices. Even the renewed depreciation in the German currency has failed to engineer another of those scenes of wildly soaring prices, as too many have burnt their fingers now to be desirous of repeating the process. Conditions are now improving, and happily once more business principles as observed in peace time are finding application, and although this may entail more work and a smaller margin of profit, the old method is in the end the most successful. The following prices are quoted in marks per kilo.:

ACETANILIDE remains the plaything of speculators, and after fluctuating considerably is now m.57 again.

ACETIC ACID (80 per cent.) is quoted m.12.50 for regular orders.

ACETYLSALICYLIC ACID.—Manufacturers have reduced their price to m.100; dealers offer at m.95.

AMMONIUM BROMIDE has declined to m.37.

ANTIPYRINE is very firm at m.345, and supplies are scarce.

ARNICA FLOWERS are obtainable in limited quantities at m.16.

ASPIRIN.—Genuine has changed hands at m.300.

BELLADONNA-LEAVES.—Foreign orders are to hand for good quality with high alkaloidal content for manufacturing purposes, at m.20.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, is in large demand at m.85 in consequence of reduced supplies by manufacturers and considerably increased consumption.

BENZOIC ACID is quoted at m.60, with a tendency to advance.

BORAX is now firm at m.10 for crystals and m.10.50 for powder, in consequence of larger orders coming in from industrial establishments, and also because apparently import licences are not being granted.

CAFFEINE (PURE).—In spite of its scarcity the price has declined to m.800, as it is now in less demand.

CAFFEINE SODIO-BENZOATE and CAFFEINE SODIO-SALICYLATE remain comparatively firm at m.450.

CAMPHOR (REFINED).—Japanese slabs have dropped to m.200 in view of more plentiful supplies.

CHAMOMILES deserve special attention, as it is now apparent that this year's crop is very much smaller than last year's. Last year's chamomiles are not obtainable under m.30, gross for net, and this year's under m.36, gross for net, and foreign buyers evince special interest.

CITRIC ACID.—In spite of the advanced season the demand has increased, a sign of depleted stocks; price is m.80.

COUMARIN.—Speculative purchases have advanced the price to m.475.

CREAM OF TARTAR (99/100 per cent.) is now in brisk demand, and has advanced to m.35, with a further tendency to increase.

ERGOT.—Home and foreign orders, combined with higher quotations by producers, have increased the price to m.320.

GLYCERIN.—Stocks are running very low, in spite of which it is still being offered at m.28.

HELIOTROPINE is in occasional demand at m.500.

HEXAMETHYLENETETRAMINE is in large request by foreign buyers, and is now firm at m.265.

HYDROQUINONE.—Dealers offer at m.165, which is still below factory price.

HYOSCYAMUS-LEAVES.—M.18 is being offered by foreign buyers for good current quality.

LYCOPODIUM.—Genuine has been entirely bought up by home as well as foreign dealers at m.275.

MAGNESIUM CARBONATE.—Precipitated white light is being offered at m.12 per kg., in cases of about 50 kg.

MENTHOL has been in brisk demand at m.825, causing recryst. to advance in sympathy to m.875.

MILK-SUGAR.—Supplies are scarce, while it is in good demand at m.32; the price is likely to advance during the winter.

OXALIC ACID is in demand at m.23.

PHENOLPHTHALEIN is offered at m.130, but there is something in the wind with regard to this article.

POTASSIUM BROMIDE has been exported in large quantities at m.33.

POTASSIUM PERMANGANATE.—Considerable business has taken place at m.58. Offers from dealers, as well as from makers, are not very plentiful. The price for export is m.67.

POTASSIUM SULPHOGUAIACOLATE is now quoted at m.275. It is regarded as a chemical with a future.

PYRAMIDON has advanced to m.700.

QUININE.—After a number of transactions the price has stopped at m.1,325.

RESORCIN has declined to m.260.

SALICYLIC ACID.—Manufacturers' price has been reduced to m.50, which is the same price at which it is now offered by dealers.

SANDALWOOD OIL.—East Indian is obtainable in very small amounts at m.925; West Indian is also very scarce, and cannot be had under m.850.

SODIUM BENZOATE, owing to increased demand for the autumn, is very firm at m.57, and shows a rising tendency.

SODIUM BROMIDE is not finding any buyers, and the price has dropped in consequence to m.35.

SODIUM SALICYLATE is scarce and very firm at m.60.

STRAMONIUM-LEAVES.—Important deals have taken place at m.19, both for home and for export.

TARAXACUM-ROOT has been exported at m.18.

TARTARIC ACID.—The demand has increased very appreciably, purchases being made for speculative purposes as well as for current requirements; therefore an advance in price seems likely. Prices are: Powder and granular, m.52; crystals are very scarce, and command m.60.

THEOBROMINE SODIO-SALICYLATE has been frequently sold at m.400.

VANILLIN (100 per cent. c.p.) is now finding a readier sale, and is in large demand by foreign buyers; German manufacturers are scarcely able to meet the demand.

VERONAL.—The demand has improved at m.500.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London

(September 14 to 21).

Alcohol, methyl., (Swe.) 11 cks., (U.S.) 32 drms.
Antimony ore (Ch.), 50 cs.
Bismuth ore (Aust.), 75 bgs.
Chemical products (Belg.), 10 cs. 18 cks.
Acetic acid, (Can.) 567 brls., (Holl.) 59 pkgs. 38 cks.
Ammon. phosph. (U.S.), 111 brls.
Argol (Port.), 446 bgs.
Arsenic, (Port.) 89 cks., (Belg.) 20 drms., (Jp.) 590 cs.
Barytes, (U.S.) 1,776 brls. 80 cks., (Germ.) 352 cks.
Bromides, (Belg.) 334 cs., (Germ.) 21 brls. 10 pkgs.
Bromine (Holl.), 384 cs.
Citric acid (Genoa), 40 kgs.
Cobalt oxide (Can.), 23 kgs.
Cream of tartar (It.), 454 brls.
Glycerin (N.Z.), 114 cs.
Manganese (Swe.), 34 bgs.
Mercurial salts (It.), 37 cs.
Mercury (It.), 500 botts.
Paraldehyde (Germ.), 16 djhns.
Potash caustic (Hamb.), 9 drms.
Potash chlorate, (M'seilles) 120 brls., (Germ.) 20 cs. 20 cks., (Swe.) 30 kgs.
Potash muriate (Holl.), 60 cks.
Potash pruss. (Genoa), 6 cks.
Potash salts, (Germ.), 100 bgs.
Soda caustic (Jp.), 155 drms.
Soda hyposulph. (U.S.), 140 brls.
Soda phosph. (Belg.), 53 pkgs.
Soda salicyl. (Jp.), 5 cs.
Soda sulphide (It.), 180 drms.
Tartar (It.), 103 brls.
Tartaric acid, (It.) 100 kgs. 181 brls., (Port.) 15 cks.
Drugs, crude, etc.: not described, (Hamb.) 20 cs., (Fr.) 10 bls.; herbs, (Fr.) 50 pkgs., (It.) 41 pkgs, (Jp.) 50 pkgs.; leaves (Fr.), 15 bls.
Camphor, (Jp.) 375 cs., (Ch.) 485 cs.
Cardamoms (E.I.), 69 pkgs.
Cinchona (E.I.), 176 bls.
Cod-liver oil (Holl.), 50 cs.
Cubebs (B'bay), 20 bgs.
Ergot, (Sp.) 15 bgs., (Port.) 34 pkgs.
Gentian (Fr.), 10 pkgs.
Henbane (Egypt), 118 bls.
Jalap (U.S.), 11 bgs.
Kola (Cey.), 23 bgs.
Liquorice juice (Sic.), 20 cs.
Liquorice powder (Fr.), 10 pkgs.
Myrrh (Aden), 11 bgs.
Nux vomica (B'bay), 20 bgs.
Orris (It.), 17 bls.
Rhubarb (Ch.), 80 cs.
Senna (Alex.), 11 bls.
Squill (Trieste), 15 pkgs.
Dyes, dyeing, and tanning materials, etc.: aniline dyes (Ostend), 41 pkgs.; chestnut ext. (It.), 350 brls.; logwood ext. (Jp.), 20 cs.
Egg products: albumen, (Ch.) 472 cs., (Fr.) 32 cs.; yolk (Ch.), 188 cks.

Gums, resins, etc.: gums not described, (Ostend) 27 cs., (Alex.) 30 bgs.; copal, (Straits) 450 cs., (Belg.) 588 bgs.; damar, (Straits) 100 cs., (Holl.) 178 pkgs.; lac: shell (Cey.), 5 cs.; resin, (U.S.) 10 drms. 4,346 brls., (Fr.) 1,650 cks., (Lisbon) 164 brls. 29 cks.; yacca, (Antw.) 21 bgs., (Aust.) 397 bgs.
Honey, (Fr.) 32 cks., (N.Z.) 26 cs.
Oils, essential, (Sp.) 6 drms., (Straits) 7 cs.; almond (Fr.), 2 cs.; anise (Ch.), 50 cs.; bergamot (Genoa), 30 cs.; caraway (Holl.), 10 cs.; jasmin (Holl.), 1 cs.; lemon (It.), 4 cs.; mint (Jp.), 225 cs.; mustard (Brit. Ind.), 200 drms.; pine, (Holl.) 1 cs., (U.S.) 130 brls.; rose (Smyr.), 6 cs.; sandalwood (B'bay), 224 cs.; sassafras (U.S.), 1 drm.; turpentine, (U.S.) 206 brls., (Port.) 1,297 cs., (Fr.) 550 brls., (Antw.) 90 brls.
Oils, fixed: apricot kernel (Calif.), 30 drms.; castor (Fr.), 17 brls.; coconut, (R'dam) 180 cks., (E.I.) 184 pkgs. 301 cs.; cod (Jp.), 1,000 cs.; fish (Jp.), 4,500 cs.; ground-nut (Ch.), 214 cs.; herring (Jp.), 920 brls.; olive, (Genoa) 30 cs. 70 brls., (Gibr.) 55 cs., (Fr.) 100 cs.; rape (Jp.), 2,000 cs.; soya (Jp.), 3,000 cs.; tea (Ch.), 268 cks.; wood (Ch.), 114 cks.
Seeds: ajowan (B'bay), 421 bgs.; almond, (B'bay) 115 bgs., (Sp.) 300 cs.; canary (Sp.), 30 bgs.; caraway (Holl.), 100 bgs.; cotton (B'bay.), 4,794 bgs.; lin, (B'bay) 5,505 bgs., (Cey.) 45 bgs., (Ch.) 1,440 bgs.; millet (U.S.), 320 bgs.; mustard, (Sic.) 1,300 sks., (It.) 5,050 bgs.
Soy (Ch.), 100 cks.
Spices: cassia, (Ch.) 100 bls., (Fr.) 170 bls.; chillies (B'bay), 117 bdls.; cinnamon (Holl.), 270 bls.; pepper (E.I.), 935 bgs.
Wax, bees' (Antw.), 23 bgs.; paraffin, (U.S.) 16,067 brls. 341 bgs., (E.I.) 912 bgs., (Fr.) 9,547 brls.; scale (U.S.), 3,227 brls.

Liverpool

(September 13 to 20).

Boracite (Tky.), 200 tons.
Chemical products, etc.:
Antimony salts (Germ.), 20 cks.
Barytes, (Germ.) 50 cks., (It.) 2,551 bgs.
Cream of tartar (Sp.), 40 brls.
Iodine (Chile), 471 brls.
Magnesite (Amst.), 200 bgs.
Potash carb. (Germ.), 62 cks.
Soda hypophosph. (U.S.), 156 brls.
Cocoa butter (Fr.), 100 cs.
Drugs, crude, etc.: roots (Fr.), 5 bgs.
Cocaine, crude (Callao), 12 cs.
Guinea grains (W. Af.), 29 bgs.
Insect-powder (Jp.), 80 cs.
Quillaia (Chile), 81 bls.
Senna (Alex.), 20 bls.
Farina (Jp.), 6,124 bgs.
Gums, resins, etc.: resin (U.S.), 2,700 brls.
Honey (Chile), 1,242 brls. 44 cs.
Oils, essential: citronella (E.I.), 83 drms.; turpentine (U.S.), 950 brls.
Oils, fixed: fish (Jp.), 1,000 cs. 600 brls.; ground-nut (Jp.), 37,200 cs.; herring (Jp.), 3,000 cs.; olive (Sp.), 280 pkgs.; palm (W. Af.), 1,988 cks.; whale (S. Georgia), 1,479 drms.
Pepper (S'pore), 165 bgs.
Seeds: cotton (R'dam), 851 bgs.; ground nuts, (Jp.) 2,980 bgs., (W. Af.) 29,821 bgs. 425 tons; lin, (B'deaux) 2,360 sks., (E.I.) 16,965 bgs.; palm (W. Af.), 12,756 bgs. 172 tons.
Talc (It.), 270 bgs.
Wax, paraffin (U.S.), 3,014 brls. 2,880 bgs.

Goole

(September 12 to 14).

Dyestuffs (Antw.), 120 cks.; oxalic acid (Holl.), 12 carb.

Hull

(September 12 to 18).

Acetic acid (R'dam), 57 cks.; albumen (N.Y.), 92 brls.; alcohol methyl. (N.Y.), 40 drms.; barytes (Antw.), 300 bgs.; betanaphthol (N.Y.), 154 brls.; calcium carbide (Sarpsborg), 1,770 drms.; chrome ore (Noumea), 860 tons; cocoa butter (Denm.), 20 bls.; cottonseed (Noumea), 22,410 bgs.; castor oil (M'seilles), 2 brls. 10 cs.; gentian (M'seilles), 12 sks.; liquorice root (Fr.), 6 sks.; seeds: cotton (Noumea), 22,410 bgs.; lin, (Cal.) 18,395 bgs., (R. Plate) 19,981 bgs.; mustard (Fr.), 10,700 sks.; soda ash (N.Y.), 747 bgs.; soda nit. (Fr.), 53 cks.

Manchester

(September 13 to 18).

Acetic acid (Holl.), 12 cks.; cottonseed (Alex.), 500 tons; hematin (N.Y.), 16 brls. 100 bxs.; phosphorus (Can.), 400 cs.; soda acetate (Havre), 62 cks.; wax, paraffin (N.Y.), 489 bgs.; yacca gum (Aust.), 760 sks.

Two Mesopotamian Gums.

Two kinds of gums are produced in Mesopotamia; one, the most important, is the well-known tragacanth, and the other is a gum known locally by the name of "elk." The former is obtained from small bushes which are found in the mountainous region extending from the South of Persia to Kurdistan. The Kurds obtain the gum in a primitive manner, their method consisting in burning the leaves and then exposing the roots, into which incisions are made; a week later the exuded gum is collected. The first incisions yield the best product, as later incisions yield an inferior, yellowish product. The collected tragacanth is brought to Suleimanaga, about 180 miles north-east of Baghdad, where it is sold to dealers, who then convey it by caravan to Baghdad, whence it is exported to Great-Britain and elsewhere. There is no organised arrangement for collecting the gum, which is entirely in the hands of the Kurds. The "elk" gum is obtained from a tree which occurs in the valleys, and grows to a height of 50 ft., with a diameter often attaining 8 ft., and known as the "button tree." It yields edible fruits, from which an oil is expressed. The gum is obtained by making incisions in the stem of the tree, and collecting the escaping gummy exudation. This is also sold to dealers in Suleimanaga, who bring it to Aleppo, where it is used for various purposes, such as the weaving of textiles, but up to now has not been exported.

Indian Opium.

Prior to the war (says "Nature") the medical opium trade was largely in the hands of Turkey, and the Indian opium poppy, although belonging to the same species (*Papaver somniferum*) as the Turkish, was found to have a lower morphine content. In order to replace the foreign product by one produced within the Empire an effort is being made to produce by breeding experiments a race with a high content and a good yield. Messrs. H. Martin Leake and B. Ram Pershad ("Journal of Genetics," vol. x., No. 1) expect, by selection and crossing of the numerous Indian varieties of opium poppy, to produce a race with the desired qualities. The preliminary paper deals with the numerous colour varieties. The colour patterns are independent of opium content, but are a useful index of purity in the various races. Chemical investigations have disclosed races yielding as much as 18 per cent. morphine.

Adulterated Kauri Gum.

In a case connected with the export of kauri gum, in the Police Court, Auckland, New Zealand, Mr. S. Mays, who conducted the prosecution for the Customs Department, said that lately some exporters of kauri had been mixing inferior gum with their shipments. Not only did local merchants complain of this practice, but complaints had also been received from the American and Canadian Governments that the inferior quality gum was having a deleterious effect on their products. A Gazette was issued on May 27 containing an Order in Council prohibiting the export of adulterated kauri gum. Defendant had imported from Australia a quantity of yacca gum, worth about one-fifth of the value of kauri, and had apparently mixed this with one or more shipments to America. At the time of the importation the Collector of Customs inquired to what use the yacca gum would be put, but received no reply. On June 4 defendant made an export entry of 247 sacks of kauri gum which, on his own admission, was really mixed gum of low grade. That declaration was erroneous, and one more of defendant's shipments should have been described as "mixed." Counsel for defendant said that there was a distinct arrangement that the consignors could mix yacca gum with the kauri if they were short of the latter. The copy of the Gazette was not received till the day after the shipment was aboard the vessel. The magistrate imposed a penalty of 25*l.* on the first charge and of 5*l.* on the second, with costs.

Java Government Cinchona.

The official report of the Java Government cinchona undertaking for the first quarter of 1920 states that at Tjinjoroean several old cinchona plantations have been cleared and the ground divided into a number of plots, which are to be planted with different grafts of *Ledgeriana* varieties. This has been done in order to supply the quinine-test station with as much material for comparative studies as possible. Great care has now to be exercised in clearing the plantations of weeds, owing to the prolonged rainy period. The total amount of cinchona harvested during this quarter amounted to 237,061 kilos. of dry bark. The first harvest of bark from the graft-plantations planted in February 1918 was obtained, and yielded on an average 580 kilos. of bark per plot, with a content corresponding to 3.68 per cent. of quinine sulphate. Owing to the better facilities for transport it has now been possible to ship larger amounts of bark to Europe, and consequently the stocks in Java are decreasing. The total stock of Government cinchona held on December 31, 1919, amounted to 1,106,293 kilos., distributed as follows:

Crop 1916 shipped to Holland	76,707 kilos.
,, 1917 ,, ,, ...	69,273 ,,
,, 1918 in stock in Java	2,510 ,,
,, 1919 ,, ,, ...	676,735 ,,
,, 1919 at Bandoeng	281,068 ,,

After deducting interest and writing off, the profit realised by the Government cinchona undertaking in 1919 amounted to 910,349 florins, against a profit of 249,240 florins in 1918. This great difference is attributable to the small sale of Government bark during 1918, since the whole of the amount contracted for delivery during the fifth year (July 1917 to July 1918) had already been sold before the end of 1917. Therefore it was impossible to supply any Government bark during the whole of the first half of the year 1918.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Therapeutics of Fasting.

SIR,—The prominence given in the newspapers to a determined voluntary fast undertaken by a political prisoner has doubtless brought inquiries to many chemists as to the possible duration of life without food. The following notes on the subject may therefore be of interest, and save them "looking up" the matter for the benefit of clients.

1. *Definition.*—Fasting is defined by the Church of England in the Sixteenth Homily "as a determined withholding of meat, drink, and all other natural food from the body for a period," but the word has come to be used in a looser sense to indicate abstinence from various articles of diet. It would be difficult to name a religious system of any description in which fasting is wholly unrecognised. It is, however, in the physiological sense that chemists are interested in the process.

2. *Metabolism in Fasting.*—In fasting the changes by which energy is liberated in the body continue, but since no source of energy from without is introduced the animal's own tissues are used up. The rate of wasting depends on the amount of energy required for muscular work and for heat production. An individual kept warm and at rest will endure a fast for a much longer period than one exposed to cold and obliged to carry on strenuous labour. In the course of a fast the tissues do not waste equally. The more essential live on the less essential parts of the body. The heart, for example, hardly loses weight at all in the longest fast. It must live on the ordinary muscles of the limbs, which in their turn live on the stored fat of the body, which, of course, varies greatly in different individuals. At the commencement of a fast the rate of wasting is rapid, but after a time it diminishes, and the animal lives more economically, especially as regards proteins. This is well shown by the following observations made during a famous voluntary fast:

Day of Fast	Protein Waste	Fat Waste
1st	104 grammes	—
10th	51 ,,	170
20th	33 ,,	170
29th	31 ,,	163

So long as fats remain they are used in preference to proteins. It is only when they have nearly disappeared that the protein tissues are called in to supply the necessary body energy.

3. *Therapeutic Use of Starvation.*—Fasting is the essential feature of the accepted modern treatment of diabetes. All food, with the exception of water, tea, coffee, or bouillon, is withheld for seven to ten days, until the urine is free from sugar. It is also *the* feature of a method of treating obesity extensively and successfully practised in India by a retired doctor of the R.A.M.C.

4. *Possible Duration of Fasting.*—In fasting hunger tends to disappear in thirty-six to forty-eight hours. The duration of a fast depends on whether water is withheld or not. If water is withheld death ensues in ten days, but if water is taken the "hunger striker" may remain alive for a very long period. The writers on medical jurisprudence are very cautious in their statements, but apparently authentic cases are recorded where persons have done without every food except water for two calendar months. The older and fatter the individual the better he stands starvation, and, given a healthy elderly man, with plenty of fat to start with, he will stand three weeks' fast with impunity. I have seen a great deal of fasting in the East, and three striking examples occur to me. One was a European who had reduced his weight from twenty to eleven stone by a "fast" which extended over six weeks. He drank copiously of water, had tea with sugar, but without milk, and as much fruit as he wished. He carried on his duties as an engineering adviser of a Government Department during the whole of the "fast," and smoked three cigars a day. The second was a Hindu girl who was stated to have eaten nothing for six months. She was in a sort of cataleptic condition, and appeared to resemble a hibernating animal. The third was a *faqir* (holy man), who lived in a remote cave and had obtained no food supplies of the ordinary kind for two years. I formed the opinion that he had reverted to the dietary of the ape man, and was subsisting on roots, plants, insects, and small rodents, as there appeared to be no doubt that he did *not* obtain ordinary food from any source. A statement of my opinion would have been received with intense annoyance by my Indian informants, who were quite satisfied that he was, like the prophet Elijah, fed by ravens or supplied with nutriment through direct divine intervention. It will be seen from the foregoing notes that the question of fasting is not such a simple one as the daily Press imagine, and I trust this letter may lead other readers to convey their special experience of the subject. Yours sincerely,

M.D., L.P.S.I. (20/9.)

Impending Legislation.

SIR,—Apparently chemists are not aware of the seriousness of the Proprietary Medicine and other Bills in their effect on the nature and character of a chemist's business. There are honourable and legitimate side-lines, in many cases more than side-lines, that are threatened by impending legislation. As to what these side-lines are, and the time that they have been practised, there is no greater and weightier evidence of their connection with chemists than the vast volumes of the *C. & D.* When one thinks of the books that a chemist uses, or has used in his student days, and the few survivals that adorn our pharmacy bookshelves, we find the study works are far outnumbered by THE CHEMIST AND DRUGGIST series, and those books that this series has whetted our appetites for and introduced us to. Already the Venereal Disease Act has rendered pages of "Diseases and Remedies" of no special value to the chemist, and dentistry in connection with pharmacy is threatened with a similar fate. But there is something else that threatens the bulk of chemists—the Proprietary Medicine Bill. If the Ministry of Health has power to add disease after disease to the schedule, we may possibly come to a time when we shall only be able to put up proprietaries for warts and corns. Further, this Bill may be the thin edge of the wedge for prohibiting the counter supply of remedies for any complaints in any form. The Pharmaceutical Society cannot, as a statutory and examining body, help us, because it would come in contact with other similar bodies. Our own special bodies, such as dental, optical, and other societies, do not secure the support they ought; chemists nowadays are too busy running the calling on huckster lines, where the capitalistic grocer and general dealer will ultimately swamp them. Is it not better to stand for our ancient rights? They are ours by custom and practice. Railwaymen and miners would fight to the death before being robbed of their rights. Are we chemists of meaner type and poorer spirit? What has legislation done for us in the last twenty years? It has given us a useless title in the name of "pharmacist," which was a signal for the chemical snob to try to take exclusively for himself the only title that was any good to ourselves or for the public to identify us. It gave us Health Insurance dispensing—one-mile limit dispensing—but destroyed our business in horticultural and agricultural poisons, and killed the major part of our counter prescribing. Chemists, don't be hoodwinked with will-o'-the-wisps in the form of *x*-ray and bacteriological posts under the Ministry of Health State Service. There are plenty of people ready equipped waiting at the edge of the pool of the nation's resources for medical State service, and at the moment that the Minister of Health stirs up its contents they will grasp the opportunity of drinking its "rare and refreshing" waters while the Council of the Pharmaceutical Society is preparing to step down in the form of a curriculum for

an impossible and useless Major examination. If the new Major is to be of any use it must be *sine curriculo*, and the subjects optional and divided into two sections, chemical and biological. What chance has a country chemist to take the chemistry required for the Major? In the meanwhile let us fight for what we have, and, like "Oliver Twist, M.D.," asks for more.

Yours truly,
HENRY J. MORGAN, M.P.S., D.C.O., etc.,
Kimbolton, Hunts.

The Latin for Syrup of Figs.

SIR,—In reply to Mr. S. P. Sayers may we say that it is not inability to translate the English words into correct Latin which has caused us to list our product as "Syrup of Figs"? Our speciality has been known for so many years as "Hodgkinsons' Syrup of Figs" that the title has become a household word in the drug-trade, and to translate it into Latin would, in our opinion, amount to an absurdity. As to the original question, the translation of "syrup of figs" is either *Syrupus ficorum* or *Syrupus ficuum*, *ficus* being a noun of two declensions; but the singular number being customary in similar cases, the correct Latin title becomes either *Syrupus fici* or *Syrupus ficus*.

Yours faithfully,
THE BRITISH DRUG HOUSES, LTD.
22-30 Graham Street, London, N. 1.

Mist. Simarubæ et Granati.

SIR,—With reference to the prescription for mist. simarubæ et granati from the Tropical Diseases Clinic contributed by your correspondent "Qui Hai" (*C. & D.*, September 18, p. 74), I would point out that cortex granati is the bark of the stem and root of *Punica granatum*, whereas it is the rind of the fruit which is meant (*vide* Martindale, 17th ed., p. 823, "Decoctum Simarubæ et Punicæ Granati." This preparation was first mentioned in 1908, so that after the enormous number of dysentery cases which occurred in the Army during the last war medical science has evidently made some progress. Doubtless with Divine aid and a few herbs miracles may yet be worked, but we should at least try to get the right herbs.

Yours truly,
HEATHEN CHINEE. (18/9.)

Notes on Catheters.

SIR,—Continuing the letter of "Senex" (*C. & D.*, September 18, p. 74), catheters should be very slightly varnished, preferably polished; this applies to the interior wall especially, as, if it is smooth and polished, the urine containing pus, etc., through leaving no sediment on the walls, enables the catheter to be more readily sterilised. Funnel ends were made by us—as Croyden & Co.—over twenty years ago, but have never been really popular. If a Thompson's bottle is used, the nozzle will fit a No. 7 catheter; if smaller sizes are used, a conical rubber point can be affixed; this can also be used for the douche-can method of washing out the bladder. The really objectionable feature is that when a funnel-ended catheter is used the urine does not pass over in a stream, but if a catheter with an oblique-cut end is used the urine passes over as a semi-arch. The cut end was first invented by the writer to replace the bone top that was always used, and could not be properly sterilised; it also shows the exact position of the *coudé* on the bladder base. The bent end should lie uppermost, and if the catheter is cut properly, this can be assured by seeing the cut end faces the patient. The eye should approximate the bore of the catheter; if larger, a greater quantity of urine can pass; if smaller, the full capacity is not used. The eye should be carefully bevelled on both sides, and be level with the surface of the shaft, not sunk. If the eye is sunk, and the edge not properly bevelled, there is danger of the mucous membrance of the urethra being torn by being sucked in.

Yours faithfully,
JOHN D. MARSHALL,
Managing Director, John Bell & Croyden, Ltd.
60 Wigmore Street, London, W. 1.

Terms for Virolax.

SIR,—The terms offered to chemists for the sale of Virolax by Virol, Ltd., are practically identical with those offered twenty years ago on the introduction of Virol to the public. The rate of profit granted in 1900 can hardly be called satisfactory in 1920. I have protested to the makers against these terms, but they cannot understand my attitude, seeing that the sale of Virolax would help to swell the takings. The income-tax inspector regards all chemists' takings as showing 28 per cent. gross profit. On this basis Virolax is far below the average.

Yours faithfully,
Tonyrefail, Glam. M. L. GRIFFITHS.

The Future of Pharmacy.

SIR,—I read with interest the report of Mr. Gilmour's address to the Bradford Pharmacists' Association (*C. & D.*, September 18, p. 57), especially the part in which he alluded to the possibility of a Labour Government coming into office and enforcing trade-union principles. But, to carry the theme to its logical conclusion, if such a situation were to arise and the qualified chemist was compelled to restrict his endeavours to pharmacy pure and simple, the same ruling would hold good for other trades and professions as well, and the grocers would no longer be able to supply their customers with Epsom salts and Seidlitz powders, the oilshops to provide camphorated oil and glycerin carefully bottled and ready for sale, and the medical man would have to be content with his professional practice and forsake his commercial adventures in the sale of drugs and appliances. So that, if we lost our photographic trade to the photographer, our sight-testing to the optician, our perfumery business to the perfumer, and so on, we should, on the other hand, be in a much better position by the regaining of our real work for which we study and qualify, and, like the *Pharmacien de Première Classe* on the Continent, take the standing that our education and responsibilities deserve. Furthermore, if a Labour Government adhered to their principles, they would enforce a six- or an eight-hour day for every worker, professional and manual alike, and we should work, say, from 9 A.M. to 1 P.M. and 2 P.M. to 6 P.M., and if the Labour members were so inconsistent as to require medicine after hours, they would, of course, following their usual practice, pay twice the price for drugs supplied overtime or on Sundays. And, lastly, a Labour Government would blush for shame when it read the present payment for dispensing-fees and establishment charges on the N.H.I. tariff, and would promptly increase them by 165 per cent. to meet the increased cost of living.

LABORITE. (18/9.)

Pharmacists and First Aid.

SIR,—The pharmacist, however much he may try to divest himself of his association with the practice of medicine, is frequently called upon to practise first aid. When an accident occurs in the streets the sufferer is more frequently conveyed by the sympathetic bystanders to a chemist's shop than to a doctor's surgery. Such cases may be a nuisance, but it is impossible to send them away, and it is essential to the chemist's prestige to be able to treat them intelligently. It is a striking fact, however, that the chemist, who may be quite competent as a counter prescriber, is often wofully ignorant of the comparatively simple details of first aid. I have seen a well-trained Minor man in the humiliating position of receiving instruction in the application of the triangular bandage from a gardener, and only last week had a very striking example of really remarkable ignorance of the first-aid treatment of a minor injury. I went into a good-class pharmacy in a county town and found a clerk suffering from bleeding from the nose. The pharmacist had taken him into the rather stuffy atmosphere of the dispensing department. The patient was standing at the bench, bending over a basin, and the chemist was giving him a styptic powder to sniff up his bleeding nose! I suggest that a knowledge of first aid is useful to anyone, and that it is an essential part of the chemist's stock-in-trade.

Yours sincerely,
M.D., L.P.S.I. (18/9.)

Insurance Dispensing.

SIR,—While thoroughly agreeing with the letter of "Justice No. 2" (*C. & D.*, September 11, p. 74) that, now adequate funds are available, it would be a bare act of fundamental justice that the discounted amounts on the 1913-14 accounts should be paid off, it would be interesting to compare the losses of those years with the state of affairs now. At the commencement the Drug Tariff was priced to show a profit on the drugs, so that the amount not paid showed a partial loss of anticipated profits and not a total net loss, but to-day it is difficult to say what the actual figures are. The payment on a cost-price basis shows a loss on wastages (during weighing and measuring), breakages, amount deducted for expenses of Pricing Bureau, increased postages, etc., while the dispensing-fee and establishment charges are still inadequate The average number of scripts dispensed per hour was taken to be six in the discussion on dispensing-charges, taking one with another; and, although Insurance work is done considerably faster than this during the rush hours, there remains the sorting out of scripts, clerical work, filling up bottles, making solutions, and so on in the slacker periods, so that the average is still approximately the same. Now in the Minimum Retail Price List the net cost of wages for dispensing is given as 2*s.* 6*d.* per hour, and the establishment charges at a minimum of 1*s.* 3*d.* per hour, thus making 3*s.* 9*d.* per hour, or 7½*d.* per script, on the lowest estimate; the Insurance Commissioners pay us 5*d.*, so that we are working at a loss of 33⅓ per cent. on this fee alone, without the other items enumerated above. As the exact position cannot be ascertained without a dissection of quantities and costs, which few chemists would have the time to undertake, it is a moot point whether we are any better off in reality now than when discounting was in force. But then the sum involved was brought to our notice in a lump, and gave us a shock; now it is discreetly docked in driblets, and we are happy in our ignorance.

Yours faithfully,

THE OSTRICH. (19/9.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Truss Experience.

Hopeful (12/9) asks if any brother chemist can give him hints as to the most comfortable and effective appliances for single inguinal hernia.

Traveller's Commission.

Ph.C. (11/9) asks: Does a traveller's commission on gross sales returns mean from total of sales at list prices, or from the net sum produced after all trade discounts given have been deducted?

Prompt Film Development.

Disgusted (20/9) writes that although all firms promise speedy return of photographic films developed, they do not all keep their word. This is annoying to the chemist receiving daily calls from his customers, who expect prompt delivery.

Box Powder.

W. H. R. (31/7) inquires regarding a powder supplied by veterinarians in Devonshire under the name of box powder or pulv. box. It is a greenish-brown powder, and is administered to cattle in doses of about 4 oz. in Johne's disease.

An Assistant's Complaint.

Victim (13/9) complains of the injustice caused to him through receiving notice to leave his present employer. "Victim" accepted the engagement eighteen months ago and moved his furniture from a distance, taking a house on a three months' agreement. Now he is required to move again and may not be able to find a house or anywhere to live, at a time when living accommodation is so difficult to obtain. He suggests that assistants' engagements should be entered into for definite terms, so as to obviate the inconvenience of which he complains.

Owner Wanted.

Mr. A. Clunie, Manchester, informs us that among the packing of a returned hamper (the sender of which cannot be traced), two gross of 1-oz white vials have been found. The chemist who overlooked these should communicate with Mr. Clunie.

Saccharin in Lozenges.

Have the makers started to put saccharin in lozenges in place of sugar? I strongly suspect the use of this in some makes of Brompton cough lozenges. Saccharin has a curious effect upon my mucous membrane of the lips and causes much tingling and numbness.—*Abel Scholar.*

What is Putty?

Alpha (8/9) writes: What is putty? Linseed oil and whiting, says the scribe. But is it? There are fears that this is not how the compound is made now or during the war. Some complain of the whiting and say it contains clay (which is not true). Putty is certainly twice the price, and, therefore, half the quality it was formerly. It is of a ghastly yellow colour and not trochiscated or balled so well as formerly. The colour is due to the iron not being removed so carefully from the whiting. Then the linseed oil—is it likely that an inferior oil is being foisted upon the British public?

Legal Queries.

A. E. C. (18/9).—The usual charge for transferring a chemist's business is a commission of 5 per cent. on the first 100*l.* of the purchase price and 2½ per cent. on the remainder.

A. R. B. (15/9).—The regulations made under the by-law admitting apothecaries' assistants to the Register of Chemists and Druggists were published in the *C. & D.*, February 14, p. 58.

W. R. G. (7/6).—(1) REGISTRATION OF TRADE-MARKS.—See *C. & D. Diary*, 1920. (2) Carbolic ointment is not a scheduled poison; it is only the acid itself and liquid preparations that are scheduled as poisons.

B. T. T. (20/9).—(1) The registration of trade-marks is dealt with in the *C. & D. Diary*, 1920, p. 308. (2) It is not compulsory to register trade-marks; there are common-law rights in a trade-mark which may be quite as valuable.

Esprit de Corps (18/9).—If the widow is not an "executor, administrator, or trustee" of a chemist, she is not entitled to carry on the business of a chemist under Section XVI. of the Pharmacy Act, 1868. The company laws offer a suitable means of overcoming the difficulty.

A. W. (16/9).—The chief points to observe in drawing up the "objects" of a chemist's company are to make the powers wide enough to include manufacturing, wholesale and retail transactions, and all the accessory trades which may be required to be carried on, such as the sale of photographic apparatus, developing and printing photographs, supply of wines and spirits, tea, optical goods, sight testing, etc.

Reno (27/8).—LIABILITY TO MEDICINE-STAMP DUTY.—The "Phosphorised Quinine and Iron Tonic" label does not involve liability to medicine-stamp duty, when sold by chemists, if the disclosure of the composition is adequate. Otherwise the words "purifies the blood" involve liability to duty. The "Golden Corn Salve" label is liable, but the "Universal Embrocation" and "Lung Balsam" labels are not.

G. F. (17/9).—SALE OF COCAINE.—A wholesaler must satisfy himself that the person to whom he supplies cocaine is an "authorised person" under the Cocaine and Opium Regulation, a summary of which is given in the *C. & D. Diary*. It is advisable to obtain separate orders signed by the chemist for each supply of cocaine. In the case of corporate bodies the order should be signed by the qualified person who has *bonâ-fide* charge of the sale of poisons under the provisions of the Poisons and Pharmacy Act.

Dispensing Difficulties and Notes.

A Lactate Mixture.

SIR,—We had a similar experience a week or two ago to the one recorded in the *C. & D.*, September 11, p. 75. The prescription was as follows :

Calcii lact.	ʒiv.
Sodii bicarb.	ʒij.
Aq. chlorof. ad	℥vj.

Misce.

On mixing, a brisk effervescence took place, and a yellowish supernatant liquid resulted, with a flocculent precipitate. The precipitate, on examination, was found to consist entirely of calcium carbonate. Although sodium lactate in large doses is hypnotic, the above prescription was repeated several times and no complaint was made by the patient.—Yours faithfully,

A. SMITH-POOL, Glasgow.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. F. (28/7).—GROWING COCONUTS.—We are unable to advise you in regard to the prospects of a coconut plantation. The following book will give you full information on the uses of coconuts : Copeland's "The Coconut" (10*s.*, Macmillan).

G. A. B. (29/7).—STYPTICIN is cotarnine hydrochloride (dose, ¼ to ½ gr). Styptol is cotarnine phthalate (dose, ¾ gr. or over). The latter is given in dysmenorrhœa and inflammatory states of the uterus.

R. R. K. (8/9).—SALT OF LEMON.—There is no standard for this. Many sell a mixture of equal parts of cream of tartar and binoxalate of potash, while others supply binoxalate of potash unmixed.

Desideratum (25/7).—METAL-POLISHING PASTE :

Japan wax	100 parts
Raw oleic acid	550 parts

Melt together and mix with—

Infusorial earth	350 parts
Mirbane oil	3 parts

J. A. S. (12/9).—COCCIDIOSIS IN POULTRY.—As you are aware, no cure has yet been found for coccidiosis. When the disease breaks out all that can be done is to isolate or destroy the ailing fowls, change the healthy birds to fresh ground, and thoroughly disinfect the fowl-house, etc., destroying all litter and excrement by burning. Ferri sulph., sodii hyposulphite, potass. permang., or sodii salicyl. may be given in small doses daily for a fortnight, in a little moist bran or in the drinking-water. Infected birds should be burnt and the pens and runs disinfected with quicklime and carbolic acid. The more thoroughly this work is carried out, the sooner will the pest be banished from the fowl-house.

J. D. (7/9).—CLINICAL THERMOMETERS ORDER.—The National Physical Laboratory will stamp any clinical thermometer that answers the official tests, no matter where the thermometer was made.

C. and S. (13/9).—The difficulty in mixing honey and syrup is obviated by first converting the honey into a liquid form by heating on a water-bath and straining through flannel previously soaked in hot water. The honey in this way is made permanently liquid, and can be thinned still further by the addition of water.

E. L. (20/9).—The removal of copying-ink stains from the edge of an etching is somewhat risky, as the composition of the ink is unknown. The cautious application of oxalic or citric acid solution may be tried; but if the stain has not penetrated deeply, mechanical means, such as scraping, will be better than a chemical process.

J. V. T. (17/9).—(1) Under the Clinical Thermometers Order it is an offence to "sell, offer for sale, supply or deliver" any clinical thermometers which have not been approved by the National Physical Laboratory. This includes export selling. (2) Mint requires for its distillation a special form of still which allows of the enclosure of the herb in a basket in such a way as to prevent burning. Particulars of suitable stills can be obtained from the manufacturers of pharmaceutical plant, whose names you will find in the *C. & D.* and the *C. & D. Diary*. (3) CRÈME DE MENTHE. See *C. & D.*, May 22, p. 100.

A. H. M. (18/9).—"APERIENT PILLS, P.F. 13."—The following is the formula for these :

Ext. aloes aq.	℈j.
Pulv. cambogiæ	gr. iv.
Pulv. jalapæ	gr. viij.
Pulv. colocynth	gr. vj.
Hydrarg. subchlor.	gr. xij.
Pulv. saponis	gr. iv.
Oleoresinæ capsici	gr. ij.

Ft. pil. xij.

T. W. T. (17/9).—You will find the new edition of Martindale's "Extra Pharmacopœia" meet your requirements as the most modern book on pharmacy.

G. S. G. (8/7).—(1) GOUT AND RHEUMATIC PILLS.—The formula for which you inquire is as follows :

Pulv. colchici corm. ...	ʒij.
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Imshe (28/8).—CLEANING TOBACCO-PIPES.—The stale pipes are best cleaned by trickling chloroform through them. When the liquid comes through colourless the pipes are heated to evaporate the chloroform which wets the interior.

G. A. B. (16/9).—BOOKS FOR THE MINOR.—See *C. & D.*, August 21, p. 92.

T. J. (13/9).—THE STATUTORY RESTRICTIONS ON THE SALE OF POISONS are published annually in the *C. & D. Diary*.

S. A. R. & Co. (13/8).—EUQUININE.—The patent process of making euquinine has expired. It was given in the *C. & D.*, February 27, 1915, p. 65.

P. L. (13/9).—STAINED TILES.—Careful experiments with hydrochloric acid will probably remove the stains from the tiles. The acid should be applied by means of a few strands of flannel tied on the end of a stick.

L. W. (18/9).—HENNA SHAMPOO POWDER.—See *C. & D.*, May 15, p. 76.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1870.

The Introduction of Chloroform.

Mr. George Waldie, of Linlithgow, a chemist and druggist, has published a pamphlet entitled "The True Story of the Introduction of Chloroform into Anæsthetics." In this memoir Mr. Waldie claims for his brother, Mr. David Waldie, now of Barnagore, Calcutta, much of the credit due to the pioneers of so valuable a discovery—a credit which he intimates Sir James Simpson almost entirely grasped for himself, unfairly ignoring those who had aided him in the discovery. David Waldie was, in 1847, chemist to the Liverpool Apothecaries' Company, and as we have reason to implicitly trust his history of the circumstance guarding ourselves only, as we shall show immediately, from any bias, we give the story in his own words. [Then follow three pages of abstract from the pamphlet.—ED.]

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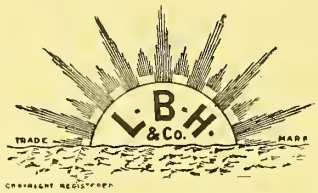

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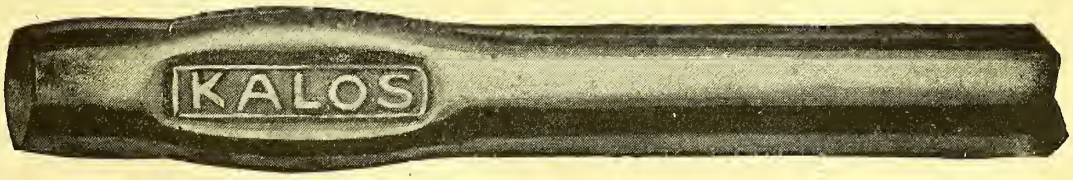

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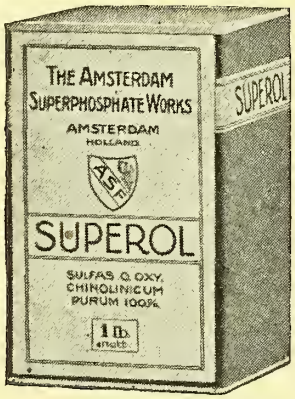

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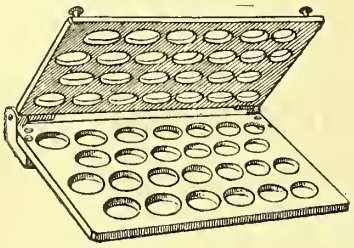
Cable Address: "CELAITCH LONDON."

CACHETS AND CACHET MACHINES.

THE "LE RÊVE" MACHINE



is made in both kinds, to be used with either the French or Morstadt series of cachets.

Complete with thimbles and damper,

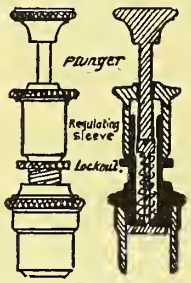
£2.2.0

CLARK'S COMPRESSO DOSEUR

enables one to dispense cachets in less than half the usual time, and can be used with the greatest ease and accuracy by the most incompetent junior after a little practice.

The Chemist & Druggist says: "The reasonable price of the machine renders it useful to all classes of chemists, but especially to those who fill their own proprietary cachets."

Price **15/-** net.



All kinds of cachets are now in stock, including Morstadt, French, and

THE NEW DRY CLOSING TYPE

of cachet. Samples of the latter kind will be sent on application. These can be used without a closing machine, only the Compresso Doseur is needed. They are by far the most practical and hygienic type of cachet on the market.

CICERO S. CLARK, Cachet Specialist,
Pharmacie Française, 12 Richmond Road, Bayswater, W. 2.

Excellent Selling Line

SILVER CAP
One-Drop Perfumes

Attractively packed in fancy boxes, each containing 6 artistic bottles with ground glass, non-leaker stoppers, and plated caps.

Price - - 90/- per gross bottles
(ASSORTED PERFUMES).

Sample dozen - - - 7/6

To be obtained from all Wholesalers, or direct from

John W. Mawson & Co., Ltd.
142 NORWOOD ROAD, S.E. 27.

JOY'S
MEDICINAL CAPSULE Co.

Wholesale Manufacturers.

Capsu'es made to suit all Climates. Worm Cure for Dogs a Speciality.

OWN MATERIAL FILLED IF REQUIRED.

Address:
23 WILSON STREET, GLASGOW.

Swiss Bank Corporation

Basle, Zurich, St. Gall, Geneva, Lausanne, La Chaux-de-Fonds, Bienne, Chiasso, Herisau, Le Locle, Nyon.
London Office - - - 43 LOTHBURY, E.C.2.
West End Branch: 11c Regent St., Waterloo Place, S.W.1.
Capital Authorised & Fully Paid-up £4.000,000
Reserves - - - - - £1,240,000

Banking and Exchange Business of every description transacted. The Bank will gladly furnish the Chemical and Drug trades with all available information regarding Trade and Industry in Foreign Countries.

Telephone No.: 787 Trafford Park, Manchester. Telegraphic Address: "Stevenut Manchester."

G. STEVEN & CO.

(G. STEVEN, Ph.C., M.P.S., Proprietor)

Wholesale Chemists, Druggists & Drug Grinders

Cornbrook Works, Chorlton Rd., MANCHESTER

TABLETS . Manufacturers of all kinds of Medicinal Tablets, plain sugar and chocolate-coated, packed and in bulk. We are now prepared to supply large quantities of

Bronchial Tablets
Pine Compound Tablets
Formalin and Mint Tablets
Bismuth and Magnesia Tablets

EXTRACTS. All B.P. Liquid Extracts are prepared with the best materials.
We can supply to advantage:
Liquid Extract of Cascara

SYRUPS . . We guarantee our Syrups to give satisfaction.
Chemical Food, packed and in bulk (free from inky taste)
Compound Syrup of Figs
Compound Syrup of Hypophosphites
Compound Syrup of Glycerophosphates
Raspberry Vinegar, prepared from this year's fruit, is of exceptional quality and flavour.

EMULSIONS **Cod Liver Oil Emulsion,** packed and in bulk. Prepared from Norwegian Oil by the most up-to-date process.
Petroleum Emulsion, packed and in bulk.

Packed Specialities . **"NIOBE" Skin Food** (Chemist's Name and Address).
Eau de Cologne No. 188, 2 oz. and 4 oz. White or green glass bottles.
Lavender Water (distilled from flowers), 2 oz. and 4 oz.

We are OPEN TO RECEIVE ORDERS for the GRINDING OF DRUGS.

All our Products are guaranteed of the Very Highest Quality.

FELLOWS' COMPOUND SYRUP OF HYPOPHOSPHITES

Fellows' Syrup of the Hypophosphites

THE STANDARD TONIC FOR OVER HALF A CENTURY

Prescribed by Physicians all over the world, Fellows' Syrup of the Hypophosphites, in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability

Fellows' Laxative Tablets

("The Tablet with a pedigree")

In two sizes, namely:

LARGE BOTTLES (containing 100 tablets) **SMALL BOTTLES** (containing 40 tablets)

AT ALL FIRST-CLASS CHEMISTS

FELLOWS MEDICAL MANUFACTURING CO., Inc.
26 Christopher Street, New York

RESINOL

OINTMENT AND SOAP

A standard treatment for eczema, pimples and other skin irritations. Resinol is also invaluable as a household remedy for cuts, burns, chafings, etc. Relieves smarting and burning and stops itching instantly. The first sale of Resinol Ointment and Resinol Soap usually means repeat sales. Be ready for first sale and see.

RESINOL CHEMICAL COMPANY,
Baltimore, Md., U.S.A.

Great Britain Depot: 97 New Oxford Street, London, W.C.
Australasian Agents: Charles Markell & Co., Sydney, N.S.W.

'C CURE'

The Proven and most Reliable Preventive and Cure for **TRAIN** and **SEA** sicknesses.

Packed in aluminium boxes enclosed in decorated cartons.
Large size **8/-** per box (enough for four journeys). Small size **4/-** per box (enough for two journeys).

EACH BOX CONTAINS TWICE THE VALUE OF ANY OTHER SIMILAR REMEDY.

Discounts to Chemists:
- 25% Discount For quantities up to 6 dozen.
- 25% & 10% For quantities over 6 dozen and under 12 dozen.
- 25% & 15% For quantities over 12 dozen.
- Special Extra Cash Discount 2½%

Apply—**'C. CURE,' Limited,**
111-113 Gt. Portland Street, LONDON, W.1.
Phone: 4510 Mayfair. *Telegams: "Cecurico, Wesdo, London"*

ÉTABLISSEMENTS CHATELAIN

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL
RE-EDUCATION OF THE INTESTINE.
Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.
Price 5/- per box.

GLOBÉOL
POWERFUL BLOOD TONIC.
Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.
Price 5/- per bottle.

PAGÉOL
POWERFUL URINARY ANTISEPTIC.
Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc. etc.
Price 5/- and 11/- per box.

JUBOLITOIRES
SCIENTIFIC SUPPOSITORIES
For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.
Price 5/- per box.

URODONAL
POWERFUL URIC ACID SOLVENT.
Rheumatism, Gout, Arterio-sclerosis Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.
12/- per bottle

VAMIANINE
New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.
Price 11/- per bottle.

SINUBÉRASE
SCIENTIFIC PREPARATION OF LACTIC FERMENTS.
Indicated in Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc. etc. Price 5/- per bottle.

FANDORINE
Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.
Price 5/- and 11/- per bottle.

GYRALDOSE
Antiseptic for local Gynæcological use.
Price 4/- per box (powder)
" 5/- " (tablets)

FILUDINE
SPECIFIC FOR THE LIVER.
Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.
Price 11/- per bottle.

Heppells

BRITISH AND COLONIAL AGENTS—
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.
Telegrams: "URODONAL LONDON." Telephone: Regent 192.
AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.
INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.

Stocked by all Wholesalers. *Now being largely advertised.*

TIDMAN'S SEA SALT

P. A. T. A.

secures profits as follows—

3d. Packets	44%	on	Cost	Price
1½ lb. Boxes	37%	"	"	"
3½ lb. "	37%	"	"	"
7 lb. "	41%	"	"	"
14 lb. "	35%	"	"	"

All orders of 20/- value and upwards are carriage paid. Cases at bare cost.

*28 lb. Bags,	Sent direct to	16%
*56 lb. "	Chemist's	20½%
*1 cwt. "	own customer	24%

*No Stock to hold or handle.

Prices on application to—

TIDMAN & SON, LTD.,
WAPPING, LONDON, E. 1.,
or to any Wholesale Patent Medicine House in the United Kingdom.

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of 25%

TRADE PRICES.

		per doz.
D.D.D. Prescrip'ion 3/- bottle, M.R.P. Face Value,	@	27/-
" " 5/- " " " "		45/-
" " 12/- " " " "		108/-

In two strengths, Ordinary and Strong.

		per doz.
D.D.D. Soap ... ... 1/3 tab. M.R.P. Face Value,	@	11/3
" Shaving Soap 1/6 stick " " "		13/6
" Vanishing Cream 2/6 jar " " "		22/6
" Shampoo Powders 2/6 box " " "		22/6

Carriage paid to any part of the United Kingdom.

Showcards &c. Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C. 4

BLINBLOW Asthma Cure

Obtainable from all Wholesale Houses.

Owing to the increase in production costs the prices of this steady-selling remedy have been increased as follows:

	SMALL SIZE (Powder & Cigarettes)	LARGE SIZE (Powder only)
FACE VALUE	1/6	4/-
TRADE TERMS	12/- doz. net.	33/- doz. net.
3-doz. quantities	11/6 ,,	3-doz. quantities 31/- ,,
12-doz. ,,	11/- ,,	

Name and Address printed free on orders for **3 doz.** 1/6 tins.

Carriage Paid to all parts of the United Kingdom on lots of 3 doz. and upwards.

THESE PRICES ARE FULLY PROTECTED BY THE P.A.T.A.

NOSTROLINE TRADE MARK REG. N.379.

NASAL SPECIFIC

Look to your Stock!

BUY DIRECT on best terms.

Protected at face value, 1/3
Price: 1 doz. 11/9, 3 doz. 33/9, 1 gross 135/-

Carriage Paid. Terms: Cash Net.

P.A.T.A. NOTICE.

113 Temple Chambers, Temple Avenue, E.C. 4.

September 25, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
	Parke, Davis & Co's. Preparations:		
10½d.	Boroseptic Ointment (Collapsible Tubes)	10½d.	7/3
1/6	Ethol (Liquid Soap) Cyclists' size ...	1/6	12/9
2/3	,, ,, Large size ...	2/3	18/9
100's	Ferrous Carbonate (Blaud Pills Softmass)	1/9	13/6
	TABLETS.		
100's	Aloin 1/4 gr. (C.C.T. 7)	1/6	11/3
100's	Aloin, Belladonna, Strychnine, and Cascara (C.C.T. 13)	1/10	15/-
25's	Antipyrine (Phenazone) 5-gr. (C.T. 112)	2/-	16/2
25's	Digestive, Rx "B" (C.C.T. 77)	1/4	10/6
25's	Easton Syrup 1-drachm (C.T. 263) ...	1/6	11/8
25's	,, ,, ½ ,, (C.T. 264) ...	1/2	9/-
40's	Euthymol Tabs., Large	1/3	10/6
40's	,, ,, Small	1/-	8/3
40's	Lithium Citrate 5-gr. (Effervescent) (C.T.)	2/-	17/3
100's	,, ,, ,, ...	4/-	34/6
25's	Methylsulphonal, 5-gr. (C.T. 280) ...	3/-	24/5
25's	Pepsin (1:3000) 1-gr. Sugar coated (C.T. 73)	1/-	7/11
100's	,, ,, ,, ...	2/2	17/3
25's	,, ,, 2-gr. (C.T. 2 8)	1/3	9/9
100's	,, ,, ,, ,, ...	3/-	24/9
25's	,, ,, B.P. (1:2500) 3-gr. (C.T. 296)	1/3	10/2
100's	,, ,, ,, ,, ,,	3/3	27/-
36's	Pepsin Lactated, 3-gr. (C.T. 74) ...	1/2	9/-
50's	Pepsin & Bismuth, Rx. "A" (C.T. 36)...	2/3	18/5
50's	,, ,, "B" (C.T. 37) ...	2/9	22/6
25's	Phenacetin B.P. 5-gr. (C.T. 274)	1/6	11/8
25's	,, & Caffeine, Rx. "B" (C.T. 276)	1/8	13/2

"QUINPHOS" REGD.

THE GREAT TONIC

This Cut-out is an exact reproduction of the "QUINPHOS" package. It stands 11 inches high.

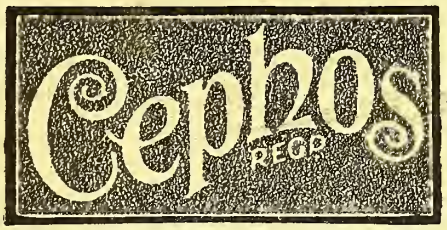
Please send for one or more, and qualify for the BONUS.

FULL PARTICULARS FROM THE

SOLE MAKERS—

THOMPSON & CAPPER, Ltd.

Manesty Buildings, College Lane, LIVERPOOL



For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

Write for wholesale terms to

CEPHOS LTD., Blackburn, Lancs.

LIQUID BARKOLA COMPOUND

Wholesale 30/- per doz., Retail 3/- each.

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

THE BARKOLA CO., LTD.,

42 Great Dover St., LONDON, S.E.1.

Proprietors of Barkola Alvexo, Barkola Balm, &c., &c.

ORILENE CAPSULES & CAZO TABLETS

are now being advertised in an extensive manner in Great Britain and the Colonies.

The Public will want them, and it is bad business to send a customer to a rival shop for anything.

The profit on the retail sale is worth having—and keep your customer.

SOLE MANUFACTURERS:

D. J. LITTLE CO., 37/38 HATTON GARDEN, LONDON, E.C.1.

SPUN OINTMENTS

ARE USED THE WORLD OVER.

TWO NEW LINES IT WILL PAY YOU TO STOCK

"NUXOCOL"
LIQUID COCOA-NUT OIL SHAMPOO.

Beautifully packed. First-Class seller.
Guaranteed to contain 20% Purest Cocoa-Nut Oil.

12/- doz. *Sells at 1/9.*

ZINCO-SULPH. CREAM.

For Pimples, Blackheads, and all Skin Troubles.

Run this in combination with a Sulphur Soap—thus enabling you to secure a double sale.

Price 7/- doz. *Sells at 1/-*

ROBERT BLACKIE, WHOLESALE MANUFACTURING CHEMIST,

"SHEN WORKS," Tower Bridge Road, London, S.E. 1.

Telegrams: "Ushenspuna London." CONTRACTOR TO H. M. GOVERNMENT Telephone: 2145 Hop.

An extensive Advertising and Publicity Scheme is now in operation on behalf of

LIQUID ICE

ANTISEPTIC TREATMENT OF ALL KINDS OF FEVERS.

A simple, natural and scientific external remedy for all Zymotic Diseases, Influenza high temperature, Headaches from all causes, Sunstroke, the various forms of Rheumatism and Gout, Neuralgia, Sciatica and Lumbago, Bruises, Sprains and Contusions.

2/- Size 18/- per doz.
3/- ,, 27/- ,,
5/- ,, 45/- ,,

Carriage paid for not less than three dozen.

Less 5% for window shows. Attractive show cards supplied. A steady regular sale ensures 40% profit on cost.

Manufacturers: LIQUID ICE CO., LTD., 100 Jermyn Street, London, S.W. 1.

ESTABLISHED 135 YEARS.

R. J. FULLWOOD & BLAND'S

TRADE MARK.

WORLD-RENOWNED

Dairy Preparations

command the biggest sale in Great Britain and Ireland, and are used and recommended at the PRINCIPAL DAIRY INSTITUTES.

ANNATTO RENNET

"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, &c.

31, 33 & 35 Bevenden St., Hoxton, London, N.1

And Rennet Works, Ellesmere, Salop.

"GLACIALINE"

The Original and Most Effective Food Preservative

The only Food Preservative that has ever been publicly awarded Gold and Silver Medals and Certificates of Merit for Purity and Harmlessness.

TRADE MARK

REGISTERED.

Full directions for use enclosed in every package. Packed in 6d. and 2/- Packets and 2/3 Canisters.

FAVOURABLE TRADE TERMS UPON APPLICATION TO THE

Sole Proprietors and Manufacturers:

BURTON, BAKER & CO.

16 EASTCHEAP, E.C. 3.

ACETIC ACID

Made in Canada. Highest Quality.

GLACIAL - 98/100 %
80 % pure edible

GLACIAL PURE 99/100 %
80 % technical

Rates quoted to any port in the world by Shawinigan Ltd., 1 Tudor Street, E.C.4, Suppliers of Calcium Carbide for Cutting, Welding, etc.

Telephone: City 3331

For supplies of Acetic Acid in the United Kingdom, write to the distributors—

A. Boake, Roberts & Co., Ltd.

STRATFORD

Stocks held in London and Liverpool

MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

Telephones: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

Telegrams: "Perryope, Nitshill," "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

33⅓ PER CENT. BONUS

The weekly sales of Osmos are steadily mounting. They have now reached an imposing figure and represent a mass of profitable business which is well worth going after. As a special inducement to retailers to co-operate in the present Osmos sales campaign, the Proprietors have allocated a portion of this year's advertising appropriation to provide a bonus in the shape of 4 Free Bottles for every chemist ordering 1 dozen. The condition being that Osmos is displayed in their window until their order is sold.

REVISED PRICE.

Necessitated by enhanced cost of production.

Trade Terms: **26/6** per doz. bottles, carriage paid.

Retail Price: **3/-** per bottle (P.A.T.A.)

Osmos, Crown Wharf, Hayes, Middlesex.

Osmos

The Great British Aperient Water

¶ **The Therapeutical properties of Osmos are equivalent to those of the best-known Alien Aperient Waters. Osmos should, therefore, be sold in lieu of those foreign products. Chemists adopting this practice benefit themselves and their Country.**

Season—1920.

COD LIVER OIL

GUARANTEED GENUINE.

Manufacturers:

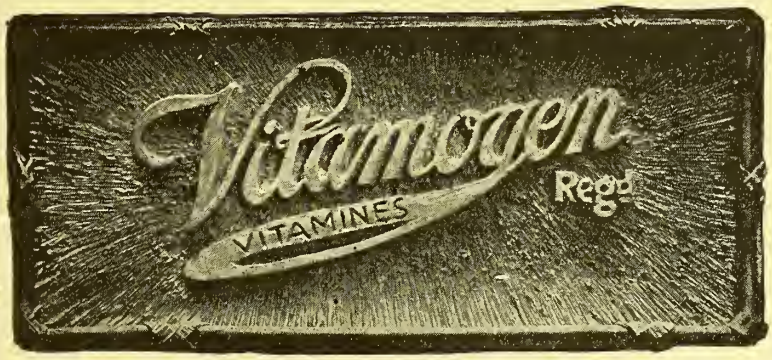
BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Wholesale only. No Retail Orders Executed.

Agents: FREUDENTHEIL & CO. 21 Mincing Lane, LONDON, E.C.3.

Tel. Add.: "FREUDENRUF." Codes used: A B C, 4th & 5th Edit.; and Private. Tel. 12513 Central.



VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.

VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.

VITAMOGEN is packed in two sizes, 2/9 and 5/9, obtainable from all the principal wholesale houses.

Literature on VITAMINES will be sent on application to:

24-26 HOLBORN, LONDON, E.C.1

Vitamogen LTD.

DIAMALT

Plain and with 15% or 33% (by weight) COD LIVER OIL

DIAPARAFFIN

Malt Extract and Paraffin in Powder form.

DRY DIAMALT

Diastasic Malt Extract in Powder form.

The above Preparations are on the P.A.T.A. and allow a 25% margin.

EXTRACT of MALT

Plain and in combination with

NORWEGIAN COD LIVER OIL

in

BULK - JARS - TINS

Name and Address on Labels for quantities of 6-doz. Jars or Tins.
(Selection of Labels sent if required.)

SAMPLES AND PRICES ON APPLICATION.

THE BRITISH DIAMALT COMPANY

(Proprietors: H. A. & D. TAYLOR, LTD.)

Works and Head Office:
SAWBRIDGEWORTH, HERTS.

Northern Agency:
J. B. CROSSLEY, Arcade Buildings, 85 Lord Street, LIVERPOOL.

Have you a WINE LICENCE?

If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

Dr. HALE'S VIN-SANGUIS
WINE FOR THE BLOOD

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
3. *That you keep Dr. Hale's Vin-Sanguis always in stock.*

Advertising Matter and Doctors' Samples free.

Trans-Continental Agencies, Limited

Proprietors of Dr. Hale's Vin-Sanguis.

14 Southampton Street, Strand, London, W.C. 2.

Saint-Raphael

Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One Wine-glass after the two principal Meals.

Recommended by—
Prof. BOUCHARDAT, Professor of Hygiene, Paris Faculty of Medicine.
Dr. MacNAUGHTON JONES, London, England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Rostan Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—Dr. C. Des Barres.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.

To be obtained from all Wholesale Druggists.

"AQUAPERIA"

Owing to the great demand for "AQUAPERIA," the Harrogate Aperient Water, we regret that we cannot guarantee that the Water will always be filled in the usual shaped bottles.

All Chemists holding empty "AQUAPERIA" bottles would be allowed at the rate of 3/- per doz. if returned carriage paid to any of our factories.

CAMWAL LIMITED,

LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE, MITCHAM.

All over the World

KUTNOW'S POWDER is in constant demand, and Chemists who stock it realise a handsome return for little effort. The reasons for this lie in the constant recommendation it receives from regular users, and extensive publicity in the press. Ask your wholesaler to quote you with reference to this profitable line. If you don't stock KUTNOW'S your customers will buy it somewhere else.

Ask your Wholesaler for full particulars and prices.

Kutnow's Powder

DEER LEAP REG. TRADE MARK

THE KUTNOW LABORATORIES, 41 Farringdon Road, E.C. 1.

Double Your Sale OF Seidlitz Powders

by Stocking

G.O. Extra Strong Seidlitz Powders

(Lemon-Flavoured and Sweetened)

WHOLESALE - 21/- gross packets
RETAIL - - 3d. each, P.A.T.A.
(5 gross lots less 5 %).

Many Chemists are selling ½ to 1 gross weekly.

They are packed in smart envelopes. 6 dozen envelopes in a carton (½ gross cartons), complete with attractive showcards. Order them direct or through your Wholesale House. Customers ordering *3 gross or upwards direct* may have their own name and address printed exclusively on the back of a special envelope.

A trial gross sent post free on receipt of 21/-

The GREENWICH LEMONADE Co.
(J. MILNER, M.P.S., Proprietor)
11 JOHN PENN STREET, LONDON, S.E. 13.

LOSALL'S SALT

SELLS FREELY & READILY

PAYS 50% ON OUTLAY

An Infallible Remedy for **GOUT, RHEUMATISM, ECZEMA, and SKIN AFFECTIONS.**

	P.A.T.A.	Doz. Net.
4-oz. tins	1/-	8/-
8-oz. tins	1/10	15/-
Bottles	2/6	20/-

The only line of its kind on the market

SOLD EVERYWHERE.

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OF

BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

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LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

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Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

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TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

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No. 1.	1½ oz. Tin ...	9/-	per doz.
" 2.	3½ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
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MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

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The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

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Special lines : English Herbs, Roots and Flowers, fresh and dried.

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Digitalis, Belladonna, Broom Tops, Dandelion Tops, Coltsfoot, Mugwort, Ragwort, Wild Carrot.

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Belladonna, Burdock, Bryony White and Black, Comfrey, Dandelion, Male Fern.

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BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

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Fine Leaf Gelatine,
Pure Calf.

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(In 1-lb. Packets, 112 × 1-lb. to Case.)

Made in England.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

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Genuine Russian **LIQUID PARAFFIN**
All gravities, correct viscosities

"Jasmine Brand" **ADEPS LANÆ** Superfine Anhydr. and Hydrous
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White and Yellow

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"Jasmine Brand" **WHITE OILS** **Chem. Pure, Water-white, Tasteless, Odourless**
FOR MANUFACTURING PURPOSES

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Actual Refiners and Manufacturers at their Works near London.

TECHNICAL AND MEDICINAL WHITE OILS.
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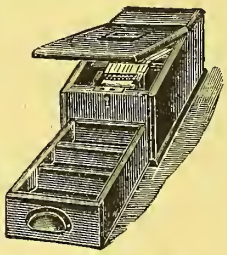
This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly coloured mahogany. Size: 18×9×7½". Lid fitted with lock and key. Recording paper 3⅜" wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, **77/6** each.



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OLIVE OILS, finest cream edible B.P.
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110 Cannon St., London, E.C.4.
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WHITE PETROLEUM JELLIES
WHITE REFINED PARAFFIN WAXES

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IN TIN-LINED BARRELS OF 25 GALLONS EACH.

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Any Quantity—from Stock.
Wholesale Only.

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OLIVE OIL GENUINE

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OLIVE OIL SOAP

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[2]

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Castor Oils, *Medicinal, Lubricating.*

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Best Raw, Double Boiled. Refined,

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Slabs, Bars, Tablets or Discs

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All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY

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Could you supply Movol if you were asked for it?

THE continued high prices for new white linen is making Movol very popular. "A cover stained with Ironmould loses its terror where the Movol magician is, and so easily, too" —this is what *your* customers are reading every week.

Could *you* supply Movol if you were asked for it or would you have to turn them away to "the other man?"

By a judicious display of Movol showcards and a moderate supply of handy tubes these ladies will come *your* way. And why not?

TRADE MARK
MOVOL
Regd

STAIN REMOVER

Removes Ironmould, Rust, Fruit and Ink Stains from White Linen, Clothing, Marble, etc.

Send a postcard to-day for particulars. A quantity of Showcards will be sent with your supply. Write the Makers—

WM. EDGE & SONS Ltd., Bolton

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WHOLESALE FIRMS IN THE Drug & Allied Trades

WHO REQUIRE

UP-TO-DATE
HIGH-CLASS
LABELS,
CARTONS,
LEAFLETS,
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For Packed Goods & Proprietaries

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JAMES F. WILKINSON,

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Specialist in Chemists' Printing,

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Send us a postal card and we will send you a 32-page catalogue of professional and business books for pharmacists, and a copy of

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an illustrated monthly magazine for druggists, full of American snap and enterprise.

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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

"Now I'm all right."

The NORWICH CRAPE CO. (1856) Ltd. (ST. AUGUSTINE'S SILK MILLS), **Norwich, Eng.**

Provincial Selling Agents, **Freese & Moon, Ltd.,** 59 Bermondsey Street, London, S.E.1.
London Buyers can obtain samples & prices from **Mr. T. Eastaway,** London Representative, 17 Wool Exchange, E.C.2.

INDIA RUBBER

PATENT MINERALIZED

(Red Mineralized and Arabesque).

SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.

Manufacturers of every description of ***INDIA RUBBER,*** *Wholesale & Export only.*

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[See pp. 440-1, "C. & D." Diary, 1920.

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RUBBER GOODS ALL KINDS
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FOR PLASTERS.
THE ORIGINAL.
THE **ONLY** GENUINE.

7d., 1/- & 1/7 Packets
5/3, 9/-, 14/3 per Doz.

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EXCELSIOR CREPE BANDAGES. FAST EDGE.

EXCELSIOR CREPE BANDAGE NAME

Owing to the War, the supply of Crepe Velpeau Bandages is discontinued. We, are, therefore, placing on the market a bandage of English manufacture which will be sold as

GIMBER'S EXCELSIOR CREPE BANDAGE

TRADE MARK.

An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2¾, and 3½ inches wide. **Excelsior Crepe Abdominal Binders.**—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

Wholesale of
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And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c.
Telephone: New Cross 1601. Descriptive Circular & Price List on application.

BEST ENGLISH MAKE

SEA-TANGLE TENTS

(Laminaria Digitata)

For dilating the OS and CERVIX UTERI.

Quotations wanted for
SEA WEED RODS
per ton.

Manufacturer: **E. BRASSE,**
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Surgical Dressings

Packed to suit Customers' requirements.

Special Quotations for Large Quantities.

ABSORBENT GAUZES
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Contractors to H.M. Government.

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Telephones: Dalston 3560 and 2318.

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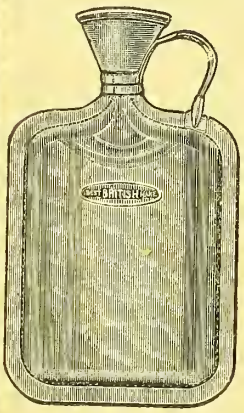
WHOLESALE AND EXPORT ONLY.

"TOMPKINS' CORNER."

Our Offer this Week

BEST BRITISH MAKE.



SIZE.	WHITE.	RED.
6 by 8	4/4	4/6 each
6 ,, 10	4/9	5/- ,,
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7 ,, 10	5/-	5/6 ,,
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Special Discounts for Quantities.
Artistic SHOWCARDS supplied gratis.

SPECIAL LINE IN
'Fleecy Ripple Covers'
in Pale Blue, Pink and other colours as available.

6 by 8 in. 12/-	6 by 10 in. 14/-	6 by 12 in. 16/-
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Per dozen net.

"CIRO" MUFF OR COT WARMER
(Each mounted on Showcard) **2/9** each net.

All kinds of SURGICAL RUBBER GOODS for the Home and Overseas Markets.

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386 City Road, London, E.C. 1.
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Established 44 years. Phone: City 7640. All-British Firm.

Enamelled Hospital Requisites

Stocked by your Wholesaler.

CHINA WHITE ENAMELLED STEEL

DOUCHE CANS

Bent Spout which prevents rubber kinking.

EXCELLENT VALUE.

IMMEDIATE DELIVERY.

Also supplied with front handle, if required.
2, 3, 4 and 6 pint.

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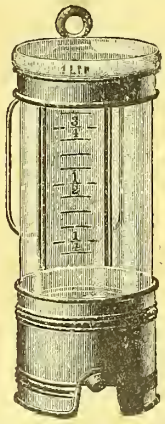
GLASS-LINED DOUCHES.

WELL MADE FRAMES.



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Immediate Delivery.

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Vulcanite DOUCHE FITTINGS
" Spare Parts
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BONE SHIELDS
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French Capping Skins (opaque and transparent)

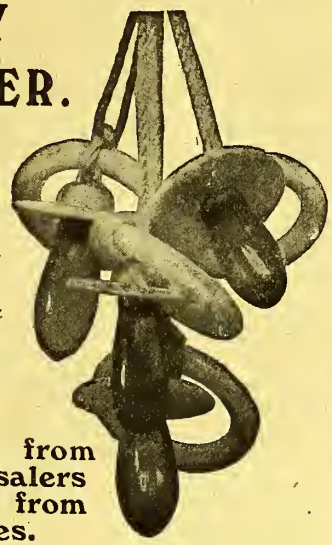
TOOTH COMBS
(Best Galalit)
POCKET COMBS

Cheap lines in NAIL FILES (bone and steel) carded
SAFETY RAZORS and spare blades.

French SHAVING BRUSHES
NAIL CLIPPERS.
TOOTH BRUSHES
at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.

The "EVERSAFE" BABY PACIFIER.



Patented Everywhere.

Present rates:—

No.			
2	4d. line	**2/9**	doz
2C	6d. ,,	**3/2**	,,
2E	6d. ,,	**3/4**	,,
3	7½d. ,,	**4/8**	,,

Obtainable from all Wholesalers or direct from Patentees.

Sample Order, Three Dozen Assorted:
Send 10/6, post free.

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(GOLD MEDAL, GUARANTEED)

Hot Water Bottles

8 lb. 12×8 weighs under 13 oz.

Covers for same, assorted sizes, 24/- doz.

BELTS TRUSSES
SUSPENSORIES
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AT LOWEST CURRENT RATES

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GOOD SELLING LINES, GOOD PROFITS, AND ABSOLUTE SAFETY IN STOCKING

"HOBSON'S CHOICE"

FEET PLAISTERS AND POWDERS

STOCK IS RETURNABLE AT ANY TIME, FOR ANY REASON, AND FULL PRICE REPAID.

For Prices and Samples apply to

HOBSON, TRIMBLE & CO., LTD.
Union St., and Market, LEEDS,
or your own WHOLESALE HOUSE.

Why Demand is still Growing.

Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

The teat and rubber valve of the Nestlé Feeder are made with inner rolls which automatically cling and cannot be pulled off by the child. There is not the usual danger of swallowing the teat as in many other feeders. Pure plantation rubber is used in the manufacture of the teat and valve. Colic is prevented by the rubber valve regulating the flow of air behind the milk. This valve also ensures a steady milk flow in accordance with baby's need.

The Central base, tapering flat under surface of the virgin glass feeder enables it to be tilted to, and remain in, any desired position. This saves the time usually occupied holding the feeder. It holds more—the feeding capacity is 10 oz.—sufficient for any child at one feed.

NESTLÉ Feeding Bottle

The Cheapest full-size Feeding Bottle on the Market.

Every part of the Nestlé Feeder, including box, is British made. Every Feeder is sterilised before leaving the factory.

The margin of profit to you is good and the turnover rapid. Write us for full details and current Trade Price List.

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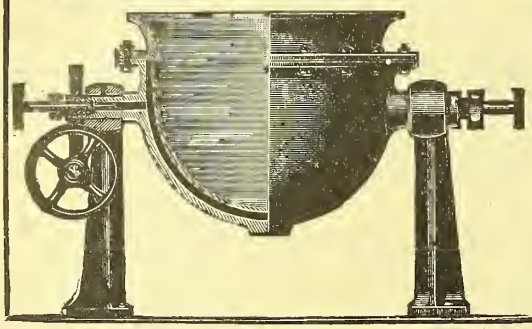


Suitable for all Temperatures and Pressures.

DANTO ROGEAT & CIE,

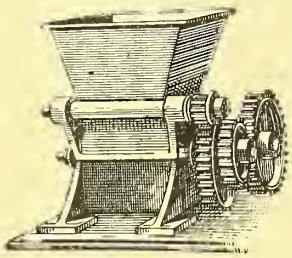
33-39 Chemin des Culattes, LYONS, France.

Suppliers before the War to the largest European Manufacturers of Chemical Products.

Write for Price List to Sole Representative:

H. SLOOG, 45 Great Marlborough Street, LONDON, W.1.

Tel.: Regent 2460.



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GRIMSLEY MIXER

for Pill Ingredients

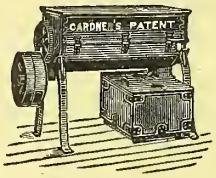
HAND OR POWER.
EARLY DELIVERY.

GRIMSLEY & CO., LEICESTER, LTD.

St. George's Engineering Works - Queen Street, LEICESTER. (1)

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



OVER 6,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER

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(No. 633 Mill)

ENGLISH FILTER PAPERS

Manufactured in

Annually Increasing Quantities

for upwards of 50 years.

White and Grey Plain, Antique, Crinkled, and Embossed.

All sizes in Squares, Circles, and Folded Filters. Rolls made to order.

Several new Grades are now successfully replacing the best German makes.

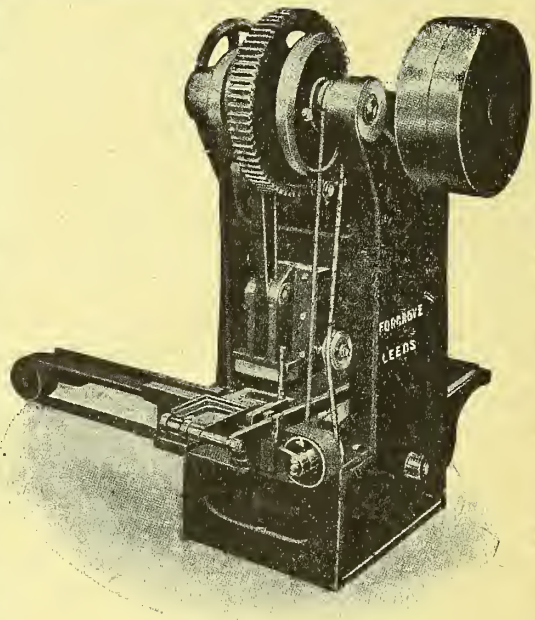
See Report of TESTS made by the National Physical Laboratory, a copy of which will be sent on application.

Ask your Laboratory Furnisher for samples of "Postlip" Filter Papers.

EVANS, ADLARD & CO., LTD.

POSTLIP MILLS,

WINCHCOMBE, R.S.O., GLOS., ENGLAND.



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Output, 50 pieces per minute.

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DEWSBURY ROAD, LEEDS.

"MODERN METHODS of DRYING."

A Booklet, containing Photographs of the actual Drying :: of nearly all kinds of material, sent free on request. ::

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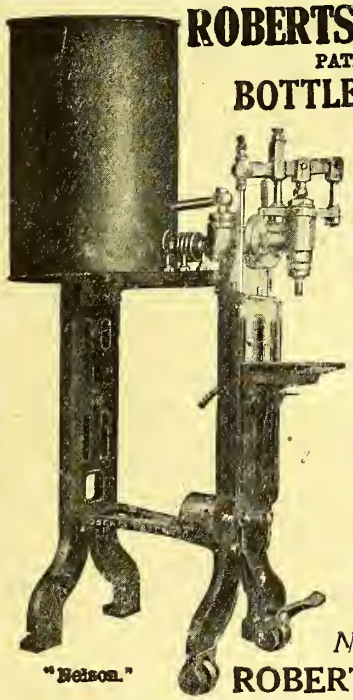
Contractors to the War Office and Admiralty, etc.



ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES

Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

NOTE the address

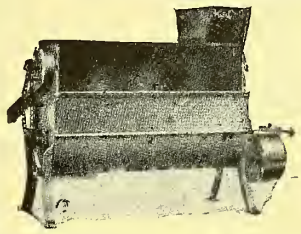
"Nelson." **ROBERTS' PATENT FILLING MACHINE CO.,**

33 ROUNDCROFT ST., BOLTON.

OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars. *All rights reserved.*

"LEYSELL" Sifting and Mixing Machines.



Made in various sizes for power or hand.

For mixing a large variety of dry powder.

Quick delivery. Inquiries solicited.

LEYSELL ENGINEERING CO.

(J. W. HEFFORD),

66 Aldermanbury, London, E.C. 2.

BATTLE, MALTBY & BOWER

Victoria Chemical Works - LINCOLN.

MANUFACTURERS OF

SHEEP DIPS (Liquid Powder and Paste)

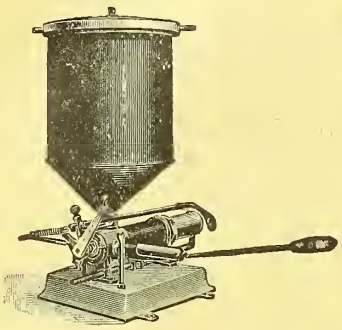
CATTLE WASH EMBROCATION (Veterinary and Household)

WEED KILLER

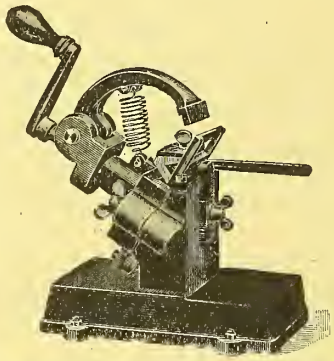
DISINFECTANTS

PACKED UNDER CHEMIST'S OWN NAME IF REQUIRED

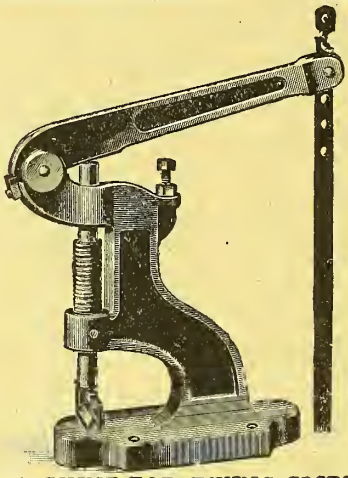
WRITE FOR PRICE LIST.



MACHINE for FILLING COLLAPSIBLE TUBES. From 1 to 10 gallons CAPACITY. Output 30 to 40 gross tubes per day.



MACHINE FOR CLOSING AND FOLDING COLLAPSIBLE TUBES. Suitable for all sizes of tubes. ⅜" to 1½" dia.



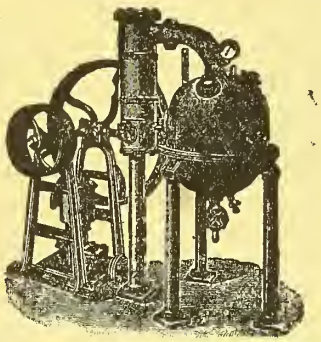
MACHINE FOR FIXING CLIPS to ends of collapsible tubes.

Can be seen in operation at—

BROOKS, PEEL & CO., LIMITED

24 CITY ROAD, LONDON, E.C. 1.

MANUFACTURERS of Collapsible Tubes in LEAD, TIN-COATED and PURE TIN. SPRINKLERS for PERFUMES, BRILLIANTINE, CREAM, &c. SCREW-CAPS for JARS, &c., in WHITE or LACQUERED TINPLATE, NICKELLED ZINC, ALUMINIUM, &c. SHAVING-STICK CASES, LIP SALVE TUBES, &c. &c.



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EVAPORATING PANS.

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SPECIAL APPARATUS AND PLANT FOR MANUFACTURING CHEMISTS.

SOLE MAKERS of BENNETT S PATENT 'IDEAL' ANNULAR FILM CONDENSERS.
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BENNETT, SONS & SHEARS, LTD.

ENGINEERS & COPPERSMITHS,

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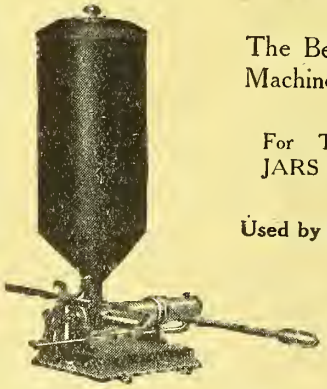
BY USING THE

"CENTRAC"

FILLING MACHINES



The Best and Cheapest Machines on the Market.

For TUBES, POTS, JARS and BOTTLES

Used by all Leading Firms.

Send us your requirements.

Tubes, Jars, Pots, Filling Machine *Sole Makers—*

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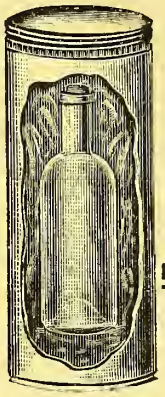
BRITISH MADE.

THE "ELSWAL" REG. TRADE MARK

MAILING CASE.



BRITISH MADE.

AT LAST!

YOU need use American mailing cases no longer. Here is a British production in every way superior to the foreign mailing cases which you have perforce used before. The "Elswal" Mailing Cases are inexpensive, strong and safe. No wrapping is necessary—the address label is simply stuck on the case and it is ready for postage. For mailing samples or other fragile articles the "Elswal" is the securest case on the market. Simply enclose the sample or article and pack it round with sawdust, screw in the cap and it is safe from all risks of breakage in transit. Send your samples out in the "Elswal" Mailing Cases. Quickest and cheapest in use, safe in transit and popular with the postal authorities.

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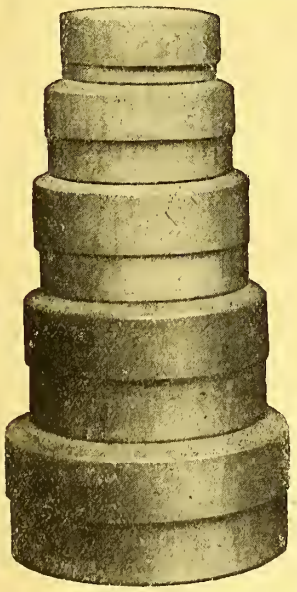
Telephone: Central 5324/5. *Telegrams: "Elswal Birmingham."*

"Corruganza" SEAMLESS Ointment Boxes



Have replaced the old willow boxes.

The bottoms cannot fall out.

Greaseproof.

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Standard or Special Designs.

We are makers of the highest quality of Collapsible Tubes by the latest and most up-to-date machinery. You can depend upon every tube being uniform in size and quality, and every cap a perfect fit, by purchasing from us.

PRICE RIGHT
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C. MELIN & CO.

ESTABLISHED 1865

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supply GLASS AMPOULES, TUBES and LAMP BLOWN ARTICLES

OF EVERY DESCRIPTION. PROMPT DELIVERY.

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ARE NOW HELD BY

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You will Save **Time, Trouble and Money** by sending your inquiries in the first place to the men who know their Trade.

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SPECIALITY:

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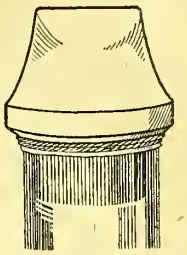
GATES' BOTTLE CAPPING SKINS



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Our methods are new and are such that we can supply much better articles than usual, and give quick delivery. In particular, we have developed the art of annealing small glass articles to perfection, with the result that the breakage factor has been enormously reduced.

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Medical Flats { Best Quality, Quinine Tinted. Pale Tinted, 2nd Quality.
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Poisons. Actinic Green, Blue or Amber.

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PRECIPITATED CHALK
Lightest and Whitest, also Purest Dense
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FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 10½d. 1/4 size, per post 1/7; 2/6 size, per post 2/9; 3/9 size, per post 4/3; 8d. size 6/- doz.; 1/4 size 12/- doz., 2/6 size 24/- doz. 3/9 size, 36/- doz.
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CACHETS "FINOT"
(White or Coloured),
With Inscriptions in any desired tint: also Plain or Embossed.
"A distinction all their own."—*C. & D*
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These Cachets are especially adapted for Headache, Neuralgia and other powders.
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12 oz. ROLLS **72/-** PER GROSS
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MOKOL SOFTENS ROUGH HANDS FACE CREAM FOR THE SKIN **MOKOL**
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Especially suitable for Dental Creams, Powders, etc.
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4-oz. Decorated Tins.
1 Gross ... 78/- 5 Gross ... 77/-
2 " ... 77/6 10 " ... 76/6
Carriage paid.
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The world-famed Enamel for Grey & Faded Hair. Absolute, safe and natural.
3/6 size 37/- doz.; 6/6 size, 68/- doz.; 12/6 size, 132/- doz.
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Appeals to all interested in children. So beautifully got up and packed that when shewn cannot help being sold. It's press advertised all the time too.
PATA PROFIT 43%
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Carriage Paid.
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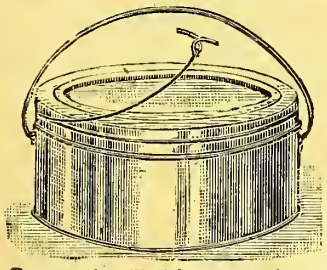

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Manufacturers for the Chemical Trade.

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Of all the leading Druggists' Sundries Houses.

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It saves the udder

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at the outset. Also cures sore teats & relieves garget.

8/-, 15/9 & 24/- per tin

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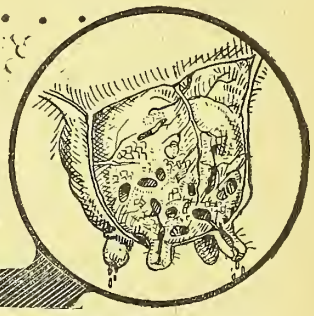

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20% discount off Invoice.

Prices, 3/- 7/6 15/- & 24/- tins.

Carriage paid on orders 40/- net. Assorted sizes.
Postage charged on small lots.

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OF ALL KINDS.

Disinfecting Fluid,
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Carbolic Acid (LIQUID and CRYSTALS),
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Disinfecting Powders.

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Telegrams: "Disinfect Cleckheaton."
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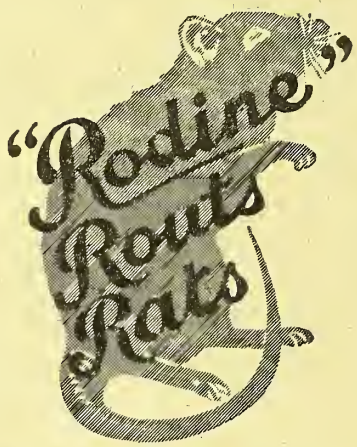

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"I am glad to use the new posters, glad to push 'Rodine,' and that you consider the man who *does* push 'Rodine.' We are getting through larger quantities, a fact you will probably have noticed."

"Rodine" is extensively advertised, and yields nearly 100% profit. Get it direct from the Maker,

HARLEY Manufacturing Chemist, **PERTH, Scotland.**

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Prices (protected).		Net Wholesale Prices.
Virus for Rats and Mice, single tube, 2/-	...	15/- per doz.
3 tubes, 5/-		
Virus for Mice only ... single tube, 1/6	...	9/- ,, ,,
3 tubes 3/-		

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price.		Wholesale Price.
Quart Bottles 6/- each	...	4/6 each
Pint ,, 4/6 ,,	...	3/9 ,,

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33⅓% cash with order.

	Retail	Monthly a/c	Cash with order
½ gall. tins ...	10/-	7/6	6/8
1 ,, ,, ...	18/-	13/6	12/-
5 ,, ,, ...	80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.

Retail Prices (protected).		Wholesale Prices. per Doz
In tins 3d. ...	In boxes of 2 doz.	2/1
,, 6d. ...	,, ,, 1 ,,	3/8
,, 1/- ...	,, ,, 1 ,,	7/5
,, 2/6 ...	,, ,, 1 ,,	18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

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Your Best Customers Expect You TO SELL

'COAGULINE'

TRANSPARENT CEMENT

Mends Permanently and Imperceptibly

A user in New Zealand writes:—
"Forty years ago and more I repaired a favourite cream jug with 'Coaguline' and that cream jug is still going strong."

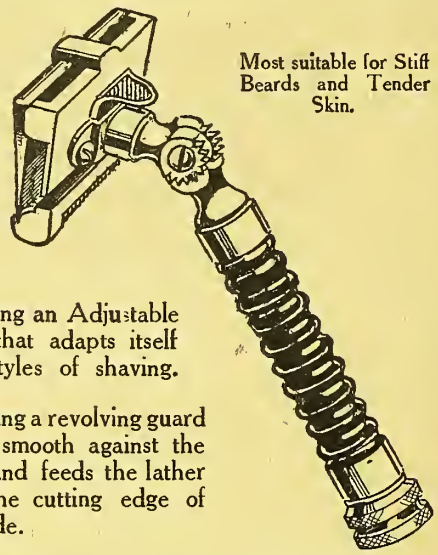
Put a box of 'Coaguline' on your counter and KEEP IT FULL

KAY BROTHERS LIMITED
Manufacturing Chemists
STOCKPORT

THE WILKINSON SWORD CO. LTD.,

of 53 PALL MALL, LONDON, *are the only manufacturers of the*

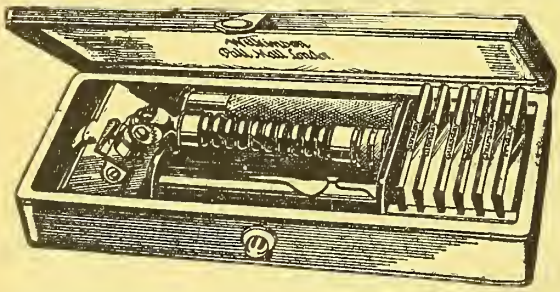
WILKINSON NEW MODEL SAFETY SHAVER.



Most suitable for Stiff Beards and Tender Skin.

In neat Leather Case with SEVEN real lasting SOLID BLADES.

THERE'S A POWER BEHIND EACH EDGE.



Possessing an Adjustable Head that adapts itself to all styles of shaving.

Possessing a revolving guard that is smooth against the cheek and feeds the lather on to the cutting edge of the blade.

THE MOST UP-TO-DATE SHAVER IN THE WORLD.

WILKINSON'S CELEBRATED SWORD-STEEL RAZORS

SWORD STICKS

IN LARGE VARIETY.

Are famous throughout the world, and are renowned for their SUPERFINE EDGE.

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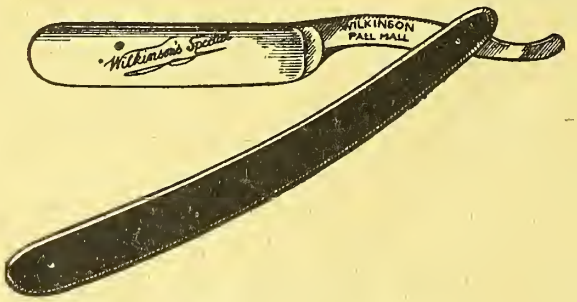

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PER DOZEN
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6 DOZEN LOTS
10/3
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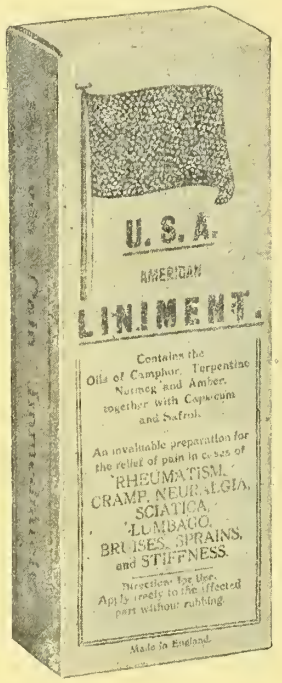

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An enormous demand exists for a Warming Liniment of the American type.

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It is a clear, bright, amber-coloured liquid, attractively bottled and labelled, and is packed in a striking carton in colours.

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MAY, ROBERTS & Co. Ltd., 7/13 CLERKENWELL RD., LONDON, E.C. 1 and at 16 Westmoreland St., Dublin.

(128)

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

SEPTEMBER 25, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

THE CHEMIST AND DRUGGIST SUPPLEMENT
REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies: 6/- for 50 words; every additional 10 words or less, 6d.
SITUATIONS OPEN: 6/- for 40 words; every additional 10 words or less, 6d.
SITUATIONS WANTED: 2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially spaced announcements, 1/3 per nonpareil line (12 lines=1 inch single column).
Miscellaneous (Wholesalers') Section, for odd and second-hand lots; 10/- for 60 words; 1/- for every additional 10 words or less.
EXCHANGE COLUMN (for Retailers, etc.). **Twopence** per word, minimum 2/-

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, **at a charge of 1/ extra** for each advertisement.

PAYMENT.

All advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4.

Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words.)

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.
Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

1.—LONDON, S.W.—Old-established Business, chiefly ready money; returns, present rate, £40 weekly; scope for development; well-fitted shop, corner position, good stock; held on lease; price about £1,800.

2.—CITY PHARMACY.—Position unique; returns, under management, upwards of £4,000 yearly, at good prices; double-fronted, well-fitted shop, fully stocked; price about £2,000.

3.—MIDDLESEX (few miles out).—Ready-money Business; returns, including a small branch, over £50 weekly, *at excellent profits*; capital opening for two energetic men; price £1,600.

4.—ESSEX COAST (popular Watering-place).—Retail and Dispensing Business; all good middle-class trading; returns £2,500; opening for extended trade; comfortable residence; held on lease.

5.—HOME COUNTY.—Good-class Retail and Dispensing Business, situate in centre of good market town; returns over £50 weekly, at full prices; there is a residence, with private entrance, bathroom; valuation terms entertained.

6.—KENT.—Modern Pharmacy, situate in centre of busy shopping thoroughfare; returns between £2,000 and £2,500; attractive, well-fitted shop, fully stocked; new lease will be granted.

7.—SURREY.—Good-class Retail and Dispensing Business, situate in the best part of a charming residential locality, within easy distance of town; returns, including branch, upwards of £4,500 per annum; the investment is suitable for a partnership.

8.—GLOUCESTERSHIRE.—Good-class Retail and Dispensing Business, with Photographic connection; gross receipts £3,500 to £4,000; vendor's own property, which can be acquired; this business offers a good opening for two men who have had a West-End experience.

9.—GREAT EASTERN MAIN LINE.—Very old-established Business, situate in the centre of market town; attractive shop, fully stocked, above the average; returns about £6,500; *excellent profits*; terms, valuation and sum for goodwill, or lump sum entertained.

10.—NORTH STAFFS.—General Retail Business; returns over £2,500; books open to investigation; double-fronted shop; moderate rental; new lease will be granted; price about £1,500.

11.—MIDLANDS.—General Retail and Dispensing Business, established many years; returns exceed £60 per week; *net profit* 25%; double-fronted shop; held on lease at a rental of £80; price to be arranged.

12.—L. & N.W. MAIN LINE.—Old-established Business, Wholesale and Retail; returns between £8,000 and £9,000 yearly; under energetic management the gross receipts should be doubled.

13.—SOUTH COAST.—Old-established Business; mostly own Proprietaries and Prescribing; returns last year between £11,000 and £12,000, *at excellent profits*; further details on application.

14.—NORTH-EAST COAST.—Lock-up Pharmacy; returns, present rate, £70 monthly; scope for considerable increase; *net profit* 25%; rent £30; new lease will be granted, or premises may be purchased; price to be agreed.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

BUSINESSES WANTED.

1. SOUTH MIDLANDS (market town).—Sound light country retail business in very best position, showing steady increase. Returns over £2,250; easily worked. Large house and garden, own property. Will sell or grant lease. Stock and fixtures worth about £1,100. Price £1,600 cash or £2,900 including freehold. £600 can be left on mortgage. Personally inspected, and strongly recommended.

2. SOUTH-EAST COAST.—Good class retail dispensing and photographic business, in best position of select seaside resort. Returns about £2,000, profits above average, low rent, on lease, good residence, fully stocked. Price £1,500; only cash buyers entertained.

STOCKTAKING.

We are now booking dates for September and October, terms sent on application.

ESTABLISHED 1870.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.

48a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

EAST COAST.—Old-established Drug Store; returns £1,000 yearly; good opening for Optics, Photography, Dentistry; freehold; no ground rent; house 6 rooms, garden with fruit trees, and poultry run; price £1,500 cash; no offers; enclose stamped envelope. Apply 197/29, Office of this Paper.

EGYPT.—Business for disposal; average yearly profits £1,000; price for same £2,000 to £2,500, according to the stock held at time of sale. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

LONDON (S.W. Suburb).—Well-established, good-class Retail and Dispensing Business; main road; shop nicely fitted and well stocked; low rental; long lease; returns £3,000 per annum; side entrance to house. Reply to "Advertiser," c/o Idris & Co., Ltd., Camden Town.

SOUTH WALES, Seaport Town.—Old-established Family and Prescribing Business in main street; returns £1,300; stock and fixtures at valuation. Reply "Aspirin" (194/30), Office of this Paper.

SOUTH WALES Colliery District.—Unopposed Dispensing, Prescribing, Photographic Business, well stocked and fitted; returns per annum between £1,600 and £2,000; good house and garden; electric light throughout; double-fronted shop; good opening for Optics and Dentistry; price and further particulars on application. "Salol" (201/12), Office of this Paper.

BRETT & CO.

All Valuations have the personal attention of F. J. Brett, M.P.S.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

£800 RETURNS, BIRMINGHAM.—Light Artisan Retail; neglected; ample scope for increase by personal attention; fixtures, fittings, etc., £250; stock at valuation, about £250; low rent.

£900 RETURNS, MIDLANDS.—General, Light Retail; no N.H.I.; net profit £300; medium house, rent low; price £350.

We have Buyers with Cash Ready for all Classes and Sizes of Businesses.

PARSON C. BAKER Ph.C., M.P.S.,

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Wm. ROOKE ROBERTS, M.P.S., F.S.M.C.

174 Victoria Street, S.W.1. Tel.: Victoria 27.

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by The British Drug Houses, Ltd., Messrs. Meggeson Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses. Valuers to the Association of Manufacturing Chemists.

STOCKTAKING IS NOW A BUSINESS NECESSITY

Write for Terms to

Ernest J. George

202 Birmingham Road,

(Thirty Years' Drug Trade Experience) *Walsall.*

Chemists' Accountant, Valuer, Transfer Agent and Expert Stocktaker for Sale, Purchase, Income Tax, etc.

Books Written Up. Balance Sheets Prepared. Prescriptions Priced.

TENDERS.

AS previously announced in issues of this Journal, July 10th to 25th, Professor Joshua Barrett invites Tenders for the purchase outright of his far-famed and household "Mandrake Specialities," comprising sole rights, fully registered, and unique trade-mark (Man-on-Drake), Plant, Stock, and bound volumes of testimonials. Established over 40 years. 30 gold and other medals. Goods stocked by leading Wholesale Drug Houses and Cash Chemists throughout the country. On view by appointment. Tenders must be in by October 4th, addressed to Professor Joshua Barrett, Mandrake House, 26 Beechfield Avenue, Blackpool.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CHEMICAL Balance, by Becker, Rotterdam, up to 50 grammes, steel knife edges; perfect condition; very sensitive. Offers to 23/30M, Office of this Paper.

HAND Sifting Machine; good condition; 3 sieves, assorted meshes; capacity 28 lb. Apply 36/39S, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BUSINESS wanted, good-class, country or seaside, by experienced business man; returns £3,000-£4,000; or partnership considered in larger; cash available. P.O.B. 20/9, Office of this Paper.

BUSINESS wanted, yielding about £500 a year net profit; within 20 miles of London. Full particulars to 202/5, Office of this Paper.

CHEMIST'S Business or Partnership wanted; Manager-Partnership considered with succession; would prefer country district, Northern Counties, where there is house attached. J. Horsbrough, 66 Bloomfield Road, Darlington, co. Durham.

FOR CASH.—Good Business, Drugs and Optical, or Drugs with Optical possibilities. Write, in confidence, "F.S.M.C." (201/10), Office of this Paper.

PHARMACIST desires to purchase for cash (£400-£500) a small, genuine Business, situated in a good-class district; house accommodation necessary. Please send full particulars to "Cantab" (198/38), Office of this Paper.

SMALL Chemist's Business required; preferably coast or health resort where scope for increase. Apply 199/13, Office of this Paper.

SOUTH MIDLANDS.—Successful Branch Manager requires good-class Business in growing locality where increased turnover would follow energetic control; good stand, with living accommodation essential; managing partnership in live concern entertained; capital available £1,000. Reply, in confidence, to "Investigator" (200/32), Office of this Paper.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

PARIS.—French gentleman, 38, with business experience, highest references, desires to hear from British firms who wish to establish agency or depôt in Paris, Foodstuffs, Chemicals, Raw Materials for Perfumery, etc. Write "B. V.," Box 790, Smiths' Agency, Ltd., 100 Fleet Street, E.C.

SCANDINAVIA.—A large firm of Manufacturing Chemists would like to get in touch with a live and well-established house in Norway, Sweden, or Denmark, for the object of representing them on a commission basis. When applying, please give full particulars of selling abilities, ground covered, experience in handling Phenols, Cresols, Fine and Medicinal Chemicals, and Intermediates, giving fullest references and any other particulars that may be of interest, to 13/206, Office of this Paper.

SOUTH AFRICA.

Firm of Manufacturers' Representatives, established over 25 years, with leading connection throughout the Union, are open for one or two more good Proprietary Lines.
Are prepared to carry stocks for manufacturers' account.
Bankers and trade references.
Address "Africa" (23/28M), Office of this Paper.

REPRESENTATIVE or Resident firm as Wholesale Agents required for South Africa by a well-known firm of Chemists' Specialists, whose products, including Perfumery and Druggist Sundries, are already well known on that Continent, and enjoy a ready sale, but during and since the war has been somewhat neglected. Apply, by letter, to "Progress" (29/180), Office of this Paper.

PARTNERSHIPS.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

£250.—QUALIFIED, 38, fluent French and German, wishes to enter into either Wholesale or Retail business at end of this year; London preferred. Communicate, in confidence, 196/32, Office of this Paper. Now on Continent.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BACUP.—Junior or Improver required, for October 11; full particulars and salary required. Apply, Mead, Chemist, Bacup, Lancashire.

BARNES.—Assistant wanted for good-class Dispensing and Retail. Apply, stating usual particulars, to Feltwell & Son, 90 Church Road, Barnes, London, S.W. 13.

BIRMINGHAM.—Assistant; unqualified; knowledge of Photography essential. Usual particulars to Green, 522 Stratford Road, Birmingham.

BRISTOL.—Junior Assistant for Dispensing and Photographic business; outdoors. Apply, stating age, height, salary required, experience, also references, with photo (if possible), to F. Moss, 206 Redland Road, Bristol.

BRISTOL.—Wanted, smart, reliable, unqualified Assistant, with good-class Retail and Dispensing experience; up-to-date Window-dresser and Counterman; good references essential; if suitable will be trained to take charge. State experience, age, height, references, salary required, and enclose photo, which will be returned, 190/30, Office of this Paper.

FULHAM.—Chemist requires active and steady, all-round, unqualified Assistant for brisk industrial business where there is considerable N.H.I. and some private Dispensing. Willing men only need apply, stating age, experience, and salary, to 199/12, Office of this Paper.

HUDDERSFIELD.—A competent Assistant, about 28-30, with experience of high-class business; indoors; short hours; good salary. Apply, with photo and every particular, to Ralph Cuthbert, Ltd., Chemists, Huddersfield.

IPSWICH.—Wanted (at once), an unqualified Assistant, from 25 to 30 years, or young, qualified man seeking experience, for middle-class business; Eastern Counties man preferred; state age, experience, and salary required (outdoors). Edwards, Chemist, St. Nicholas Street, Ipswich.

LEEDS.—Competent Junior Assistant for good-class Dispensing and Photographic business. Apply, with full particulars, stating age, height, and salary, by letter only in first instance, Whitaker, Pharmacist, The Parade Pharmacy, Street Lane, Roundhay, Leeds.

LIVERPOOL.—Wanted, Improver or Junior; one just out of apprenticeship would suit; salary to commence 50s. weekly, progressive. Full particulars to Banners, Ltd., 266 Smithdown Lane, Liverpool.

LONDON (Central).—Smart, unqualified Junior (male), about 22, for light, quick Retail and Dispensing business; outdoors; no Sunday or Bank Holiday duty. State usual particulars and salary required to Manager, Martin & Co., 164 Charing Cross Road, W.C. 2.

LONDON, W.—Assistant wanted for Counter and Dispensing. Apply the Manager, Heppell & Co., 26 Piccadilly, W. 1.

LONDON, N.W.—Smart unqualified Assistant for quick Retail and Dispensing business; outdoors. State usual particulars and salary required to Berry, 96 Craven Park Road, Harlesden, N.W. 10.

LONDON, N.W.—An Assistant required, accustomed to good-class business; state usual details. "Everyman" (202/14), Office of this Paper.

LONDON, S.E.—Smart unqualified Assistant required for Dispensing and to assist at Counter; hours 9 to 8, Thursdays 9 to 1, Saturdays 9 to 9, Sundays 2 hours once a month. Apply, stating age, experience, references, and salary (outdoors), 201/1, Office of this Paper.

LONDON, S.W.—Assistant wanted at once; must be smart and experienced on Counter, Dispensing, and have good knowledge in conducting up-to-date business; the position is good-class suburban and a comfortable berth for suitable applicant. Apply, giving full details in first letter, 201-/32, Office of this Paper.

LONDON, S.W.—Junior, used to quick middle-class cash business; position affords scope for intelligence and keenness, only those with exceptional references need apply. 200/28, Office of this Paper.

MANCHESTER (NEAR).—Qualified Manager required, young and energetic, for up-to-date cash business; none but a thorough business builder need apply; good wages given to right man. State experience, age, salary expected, to 199/16, Office of this Paper.

NEWCASTLE-ON-TYNE.—Photographic.—Wanted, Assistant, well up in Photography and Optics; energetic and reliable; good references from two last employers; state wages required and earliest could undertake duties. Apply Milburn's, Ltd., 95 and 97 Northumberland Street, Newcastle-on-Tyne.

NEWPORT.—Junior Assistant required immediately for permanent and progressive post; Counter, Dispensing, and Stock; state age, when at liberty, and salary required. "Newport" (198/290), Office of this Paper.

NORTHAMPTON.—Junior Assistant; single; good Counterman and Dispenser; state age, salary required, and when at liberty; permanency. "Northampton" (198/29), Office of this Paper.

OXFORD.—Unqualified Assistant required (at once) for University business; must be a reliable Dispenser and a good Counter man. Send fullest particulars of all experience in first letter and salary wanted, Druce & Co., 118 High Street, Oxford.

SCARBOROUGH.—Junior wanted for good-class Dispensing and Retail; outdoors. Apply, with full particulars of experience and salary required, to F. A. Lund, Pharmacist, 94 Westborough, Scarborough.

YORKSHIRE, WEST RIDING.—An experienced and energetic man is required to organise and develop Optical and Photographic Departments of large Store business; permanent and lucrative position for ambitious man possessing real ability. Full particulars, "Yorks" (202/1), Office of this Paper.

ASSISTANT; unqualified; experienced in first-class Dispensing business with Photographic; outdoors. Particulars of experience, salary, when disengaged, etc., to W. N. Ashworth, Church Street, Weybridge.

ASSISTANT, unqualified, for good-class business; Dispensing, Counter, and Photography; permanency if suitable. Patterson, Chemist, Claygate.

ASSISTANT wanted (early in October) for Dispensing and to assist at Counter; 48-hour week; outdoors. Please state age, experience, references, and salary required. Apply to the Manager, 149 Balby Road, Doncaster.

ASSISTANT wanted (male); good Counterman. State age, experience, and salary required (outdoors), F., 4 Mount Ephraim Lane, S.W. 16.

ASSISTANT required; must be competent, but not necessarily qualified; good Counterman, Dispenser, and Window-dresser, with knowledge of Photography. Full particulars, salary required, and references to 200/2, Office of this Paper.

CAPABLE, unqualified Assistant required (October 4th) for good-class Dispensing, Photographic, and Family business; one other Assistant and Junior kept; all-round experience guaranteed; personal interview preferred. Reeves, Widmore Pharmacy, 195 Widmore Road, Bromley, Kent.

COMPETENT Assistant; unqualified; must be a good Salesman; outdoors; easy hours; state salary. "Cambrian" (199/10), Office of this Paper.

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E. 15.

DISPENSER wanted. Applicants must have the M.P.S. qualification and have had previous Hospital experience. Apply, stating salary expected, and enclose copies of recent testimonials, to A. W. SCRIVENER.

ELDERLY or unqualified Assistant (lady or gentleman) for light work; easy hours or part time could be arranged; live out. State salary and full particulars in first letter, Lubbock, Chemist, East Barnet.

FULLY-QUALIFIED Shop Assistant required at once, for London branch. Apply, with fullest particulars, salary required, to the Casson Chemical Co., Ltd., Westbourne Hall, Westbourne Grove, London, W.

JUNIOR Assistant: male or female; Mixed business; N.H.I.; hours 7 p.m., Wednesday 1 p.m., Saturday 8 p.m.; no Sunday or Bank Holidays; also one willing to assist in Post Office. J. Hague, 18 High Street, Lincoln.

LADY, with Minor qualification, required as Assistant to put up stock, and with Counter experience and knowledge of Photography preferred; salary £2 2s., plus a very comfortable home in healthy surroundings outside the town. Kindly send particulars to G. Cheethams, Ltd., Dispensing and Family Chemists, Louth, Lincs.

LADY Dispenser wanted; Apothecaries' Hall qualification; willing to assist at Counter; permanency. Apply, stating age, experience, etc., to W. Deacon, Pharmacist, Bridgwater.

JUNIOR or Improver wanted in a small, good-class Retail and Dispensing Business. Apply, with usual particulars, stating salary required (outdoors), to L. H. Snow, Pharmacist, 16 High Street, Marlow.

MANAGER, qualified, young and energetic; single preferred; good-class locality, London suburb; interest in net profits offered; state age and experience in full, and all positions held; photo, if possible; salary offered, £7 week. Apply 202/12, Office of this Paper.

QUALIFIED Manager wanted for branch business in small market town Norfolk; good Prescriber, with experience in Sight-testing and Photographics essential; married man to live in house attached to Pharmacy; salary and commission. Apply, by letter, giving full particulars of age, experience, etc., and enclosing photo, to Manager, c/o T. S. Widdowson, Esq., 144 Breakspear Road, Brockley, S.E.

QUALIFIED Chemist, M.P.S., wanted (at once) to manage a Retail business; knowledge of Optics and Photography essential; Manchester district; excellent opportunity for an efficient and energetic man. Apply, stating age, wages, and experience, 196/16, Office of this Paper.

QUALIFIED Assistant wanted immediately; resident in London; must be young and energetic, good Salesman, Window-dresser, and reliable Dispenser. Apply by letter, giving full particulars as to age, experience, and salary required, to "Statim" (29/19P), Office of this Paper.

SEVERAL smart, unqualified Assistants required immediately; excellent prospects for capable young men. Apply, stating age, experience, and salary required, to Colmans, Ltd., 161 Bury New Road, Manchester.

SMART unqualified Assistant (male) wanted, to commence October 11th; knowledge of Photography essential; quick and accurate Dispenser. State salary required (outdoors), and give full particulars in first letter, Edgar Wilson, M.P.S., 356 Essex Road, Islington, N. 1.

UNQUALIFIED Assistant wanted for Dispensing, Counter, and Photographics; easy hours; no Sunday or holiday duty; give full particulars, age, experience, references, salary required, etc., photo if convenient. Smith, Chemist, Durham.

UNQUALIFIED Third Assistant wanted; must be a good Dispenser. Apply, personally or by letter, to W. S. R., 1 Southwick Street, W. 2.

WANTED (immediately), qualified man to manage branch; lock-up shop; working-class district; Assistant employed; salary £3 per week, commission on profits. Apply, by letter, stating age, experience, etc., to Secretary, Denaby Main Industrial Co-operative Society, Ltd., Denaby Main, near Rotherham.

WANTED, lady Dispenser in small country town; to live out. Apply, stating salary, Drs. Harrison and McKean, The Yews, Ledbury.

WANTED, Junior Assistant; quick, accurate Dispenser. State age, references, and salary, to C. J. Allan, Chemist, Redcar.

WANTED, a Junior Assistant; Light Retail and Dispensing; local gentleman preferred. Full particulars to J. T. Sunman & Son, Chemists and Pharmacists, 43 Wellington Street, Luton, Beds.

WANTED, a good Junior, well up in Dispensing; easy hours; outdoors. Apply, giving full particulars in first letter, to Smart, Littlehampton.

WANTED, a qualified Assistant, not under 30, who has been accustomed to a good country business with Agricultural trade; able to take full charge if necessary. Apply, with full particulars, stating age, salary required, etc., to Mumford, Chemist, Bridgend.

WANTED (immediately), competent qualified Dispenser. Apply the Manager, Heppell's, Hotel Cecil Buildings, Strand, W.C.

WANTED, gentlemanly Assistant; good experience; outdoors; personal application preferred. Dyson & Co., 35 Gloucester Road, South Kensington, S.W.

WHOLESALE.

LONDON.—Wholesale Druggists require experienced Wet and Dry Counter Hands. Write, with full particulars, at first instance, to G. D., c/o Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

LONDON AREA and SOUTH COAST.—Travellers required by the proprietors of a widely-advertised Medicinal Water who are prepared to appoint representatives to call on Chemists, etc.; applicants should state what lines at present carried and districts covered, together with experience and terms expected, which will be treated in strict confidence. Write "M. R. D.," Box 456, c/o Mitchell's Advertising Agency, 1 Snow Hill, E.C. 1.

LONDON Representative.—A smart, experienced Traveller, with live connection amongst Chemists in London County, required at once by reputable firm of Manufacturing Chemists. Apply, with full particulars of previous experience, salary required, etc., to 4/600, Office of this Paper.

WALES.—An experienced Representative required by firm of Manufacturing Chemists for this territory and adjoining English Counties; a sound, established connection amongst Chemists and Doctors essential; excellent opportunity for right man. Apply, with full particulars and salary required, etc., 4/60B, Office of this Paper.

ADVERTISING.—Large London firm has a vacancy in its advertising department, suitable for recently qualified Pharmacist with taste for writing and compiling advertising matter. Send full particulars of age, qualifications, previous occupation, etc., to 4/58B, Office of this Paper.

ASSISTANT Chemist required in the Laboratory of a Wholesale Perfumers, Birmingham district; must have had good experience in the manufacture of Tooth Creams and Toilet Creams, etc., and be capable of exercising supervision over the other hands. Apply "Vanish" (5/32C), Office of this Paper.

COUNTER SPECIALITY DEPARTMENT.—Southall Brothers & Barclay, Ltd., Birmingham, have a vacancy for a Manager of first-class ability and experience. Applicants should furnish full details of experience, salary required, etc.

DOCTORS.—Wanted, a Representative calling upon these gentlemen to undertake the sale and introduction of a first-class non-alcoholic wine of unique character, etc., on a liberal commission basis only. State age, territory covered, and mention what other lines (if any) at present carrying. Reply in first instance to "C." (5/29), Office of this Paper.

FIRST-CLASS Representative, by a firm of Manufacturing Chemists; applicant must have connection for sale of Drugs, Chemicals, and Pharmaceutical Preparations; liberal terms. State age, experience, and salary, etc., required, P.C.B. 20/8, Office of this Paper.

LONDON Company, manufacturing all classes of Puffs, Puff-boxes, Handkerchiefs, Compacts, and other Toilet Goods, require a resident Representative for the North of England to call on Wholesale Chemists and Sundriesmen; commission; duties will occupy about three days per week on an average. Reply, stating territory covered and other particulars, in confidence (interview will be arranged), 202/10, Office of this Paper.

REPRESENTATIVE, with established connection amongst Chemists and Stores, to carry well-known proprietary winter line on commission; easy article to handle. "R.," 16a Rockingham Street, S.E. 1.

REPRESENTATIVE for Yorkshire, Durham, and Northumberland; Packed Goods and Sundries; part-salary and commission; man with good connection can easily average £10 a week; no objection to one or two non-competing lines. State experience, age, etc., to 201/9, Office of this Paper.

REPRESENTATIVES required for London, provinces, and Scotland to introduce Toilet Specialities to Chemists and high-class Hairdressers, preferably on commission basis; excellent side-line for energetic men. Apply, stating full details of ground covered, etc., to 36/38S, Office of this Paper.

REQUIRED, for the sale of Soap, first-class Traveller calling on Wholesale Chemists and Druggists. Apply, giving full particulars as to age, experience, salary required, etc., to 4/52B, Office of this Paper.

SMART whole-time Traveller wanted for London and provinces for sale of Bottles to Wholesale Druggists and Perfumery manufacturers. Apply, stating experience, salary required, etc., to P.C.B. 19/30, Office of this Paper.

TRAVELLER required by reputable firm of Manufacturing Chemists; must be highly qualified Salesman, capable of selling Flavouring Essences, Colours, Chemicals, etc., for the Baking and Manufacturing Confectionery trades; territory, London. Apply 21/12L, Office of this Paper.

WANTED (at once), for a Dublin house, a man accustomed to making Pharmaceutical Preparations, working a small Laboratory, and supervising the putting up of specialities, etc. Apply, with full particulars, to 14/25H, Office of this Paper.

WANTED, for Perfumery and Dentifrice Manufacturing Department, smart, energetic, young man with practical experience; good organiser and manager. Apply, stating experience, age, and salary required, to "Confidence" (4/57B), Office of this Paper.

WHOLESALE.—Traveller wanted, with established connection among Chemists or Doctors, to sell a few Pharmaceutical Chemicals, much used in Dispensing, to work part or whole time on commission basis. Write briefly, with references, to P.C.B. 18/25, Office of this Paper.

WORKS Chemist required by old-established Essence Distillers and Manufacturing Chemists; must be experienced in Pharmaceutics, including manufacture and analysis of Essential Oils, Synthetics, etc., and in the erection of plant, to assist and when required take charge of manufacturing processes, assay of raw materials, also to conduct research, improve and initiate new products; position offers scope and permanency to man of ability, energy, and originality. Apply, stating age, salary required, references, and general experience, in confidence, to 14/24H, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

HANKOW.—Young qualified Chemist required at once; four years' agreement; £40 monthly first year; passage paid out and home. For full particulars apply Butlers (London), Ltd., 124/7 Minories, London, E. 1.

RIVIERA (HYERES).—Junior Assistant required for season; good experience and comfortable indoor berth. State lowest terms, etc., Cross, 42 Boultham Avenue, Lincoln.

SOUTH AFRICA.—Qualified Assistant, single, required. Apply, with full details of experience, etc., 36/37S, Office of this Paper.

INDIA.—Chemist's Assistant wanted, Minor qualification not essential, to take charge Wholesale Drug Department; well educated and able to transact correspondence; knowledge accounts advantageous; must have thorough experience Wet, Dry Counters and sundries; four years' agreement; passage paid out and home on satisfactory termination of agreement; salary commencing £420 per year, annual increase £30. Also qualified Assistant for Retail Dispensing Department; good prospects for suitable man; terms as above. Apply "E. H." (9/11E), Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 10 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—LOCUM or temporary, disengaged; highest references; take entire charge; reduced fees (fares included). "Pharmacist," 2 Christian Road, Preston.

A.A.A.—CHEMIST (24), tall, disengaged, desires post; 5 guineas weekly; energetic and competent Manager; North preferred. 201/37, Office of this Paper.

A.A.—LOCUM, permanency; qualified Manager, disengaged September 27th; best references. "Statim," 126 Coventry Road, Small Heath, Birmingham.

A.A.—DISENGAGED Pharmacist; single; 32; good experience; any capacity, any locality; moderate salary. "C.," Clear Mount, Dorchester.

A CAPABLE, young lady Assistant, qualified, Square-trained, can be thoroughly recommended by Francis & Co., Pharmacists, Wrexham; Counter work, Dispensing, or both. Miss Moss, Mossbank, Coedpoeth, Wrexham.

A MINOR Student seeks week-end employment; full day Saturday, Sunday duty if desired; 39, tall, courteous; City experience; take charge; excellent references covering 15 years. Apply P.C.B. 19/25, Office of this Paper.

A QUALIFIED Chemist, disengaged, single, as Branch Manager; experienced; interview arranged. Apply "A. G.," 12 Linwood Street, Greenheys, Manchester.

A QUALIFIED lady Dispenser disengaged; references. "B.," c/o Bramptou Rectory, Norwich.

A QUALIFIED Chemist desires situation, London; interview arranged; middle-aged; abstainer; varied experience. Branson, 5 Wellington Road, Peckham, S.E. 15.

A QUALIFIED Chemist, with 15 years' first-class references, requires permanent position as Manager, in London, early October. Chemist, c/o 13 Coniger Road, Parson's Green, S.W. 6.

A RELIABLE Assistant requires permanent berth; 25 years' experience Dispensing, Photo, and Optics; excellent references; South England preferred. Sugden, 43 Hall Royd, Shipley, Yorks.

A SCOTCHMAN, 23, qualified, 6 ft., now free, energetic, desires post, England; good reference, with Window-dressing and Photography. Johnson, Southfield, St. Andrews.

ADVERTISER; 20; part Hall; two years' Dispensing experience; to live in or out; very willing. Apply 199/2, Office of this Paper.

ADVERTISER, Licensed Valuer, will undertake few Stock-takings; very low terms for week-end dates; London, Home Counties. Valuer (19/23), Office of this Paper.

ANY capacity; qualified; aged 25; 5 ft. 9 in.; well recommended; good experience in Retail and Dispensing; London, Manchester, or North preferred. H. Bennett, Copthryst Farm, Holmfirth, Yorkshire.

AS Assistant, qualified, aged 25, tall, in Retail and Dispensing business, used to Laboratory work; good experience; well recommended. "R. J. S.," 37 High Street, Leighton Buzzard.

AS Manager or Locum; qualified; moderate remuneration; 16 years' London, country, Continent; fluent French; considered profitable Salesman, Prescriber, careful Dispenser; good references. "Chemist," 78 Rockingham Street, S.E. 1.

AS Manager, Assistant, or Locum; experienced Counter, Dispensing, Prescribing; excellent references; reasonable terms. "G.," 67 Bath Road, Exeter.

AS Manager, preferably with a view to purchase; qualified; twenty years' experience; London or suburbs; could take up duties immediately; highest references. Address 4/59B, Office of this Paper.

AS qualified Manager or Locum; disengaged; good all-round experience; town or country. J. Fraser, 57 Cranbury Road, Fulham, S.W.

AS qualified Manager or Assistant; permanency preferred; 20 years' experience; disengaged at present. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

ASSISTANT; 33; unqualified; West-End experience; London preferred. "Signum," 28 Melrose Avenue, Cricklewood, N.W. 2.

ASSISTANT, lady (25), Minor; disengaged; South preferred, temporary or permanent; Hospital, Chemist, or Doctors; four years' good experience Dispensing, Retail, Photography; excellent references. "J. S.," c/o Bannister, Colehill, Wimborne.

ASSISTANT or Manager; 30; unqualified, abstainer, reliable; 14 years' experience; highest references; permanency; South Coast, Brighton, or near; disengaged early October. Apply 147/33, Office of this Paper.

ASSISTANTSHIP desired in Dispensing business by young man aged 19; just completed apprenticeship; of good appearance and competent; excellent references; would like to be with Christian people if possible. Wheeler, Northfield, St. Peters, Isle of Thanet.

ASSISTANT (26) desires post in good-class Dispensing business; 11 years' experience; salary required, £4 per week; provincial. Please send full particulars, 201/36, Office of this Paper.

ASSISTANT (24) desires situation; London preferred; all-round experience; immediately. "Rhei" (201/27), Office of this Paper.

ASSISTANT desires re-engagement; Bath, Bristol, or neighbourhood; unqualified; Dispensing, Countr, and Photographic experience; good Window-dresser; references. Apply 200/6, Office of this Paper.

ASSISTANT, aged 20, tall, abstainer, keen, willing, reliable, with high-class West-End experience, desires outdoor Assistantship in Western, Northern, or Central London; good at Dispensing and French; highest references. "London" (P.C.B. 20/10), Office of this Paper.

ASSISTANT, unqualified; experienced Dispenser and Counterman; good references; country preferred. Replies, 202/6, Office of this Paper.

BRANCH Manager or Assistant; 40; unqualified; good Salesman, Extractor; nine years present situation. Munro, 275 High Street, Lewisham, S.E.

BRANCH Management (from October 12); middle-aged; well experienced, reliable, active, courteous; permanency desired. Chemist, 68 Addison Street, Nottingham.

BRANCH Manager or Assistant; possible succession; energetic. "Medious," 58 Gipsy Hill, S.E. 19.

BRANCH Manager; married; 5 ft. 9 in.; abstainer; good Prescriber, Photography; reliable; 25 years' experience; excellent references. Harwood, Yarmouth House, Shanklin (I.W.).

BOURNEMOUTH or DISTRICT.—Part-time employment sought with Chemist or Doctor; evenings and half-day Saturday; commencing mid-October; giving up full-time Retail. Apply "Brighton" (196/22), Office of this Paper.

BRISTOL OR DISTRICT.—Dispenser, lady, Hall qualification, requires post; Institution or Doctor preferred. Miss Rose, 12 Tyndalls Park Road, Bristol.

DISPENSER (Hall), daily; five years' reference; Doctor, Chemist, or Institution. Miss B. Warrington, 48 Buckleigh Road, Streatham.

DISPENSER (male); 30; unqualified; experienced with Hospital, Doctor, or Chemist; London or Birmingham. S. R. Naylor, 12 Bevington Road, Beckenham, Kent.

DISPENSER, lady (Hall), Secretary-Typist, books, seeks situation with Doctor; middle-aged; references. Apply 187/17, Office of this Paper.

DISPENSER, Hall qualification, desires post; London preferred. Miss Harris, 126 Thurlow Park Road, London, S.E. 21.

DISPENSER and Surgery Assistant (male); qualified Dispenser, with Medical curriculum; varied experience; reliable; good references. L. M., 54 Gurney Street, London, S.E. 17.

DISPENSER (lady); Hall; experienced Institution, Hospital, and Surgery; excellent testimonials; in or near London. M. D., 42 Oakford Road, N.W. 5.

DISENGAGED.—Situation wanted, whole or part time, or Locum; good Counterman, Dispenser, Prescriber. Harrison, 15 Waltham Road, Southall.

EXPERIENCED Assistant; London; good references; disengaged shortly; personal interview. L., 7 Roslin Terrace, Acton.

EXPERIENCED Managing Assistant; business-builder; temporary or permanency; disengaged. "Chemicus," 3 Godfrey Road, Newport, Mon.

GENTLEWOMAN, qualified Dispenser, desires post; thoroughly experienced; Dulwich or neighbourhood preferred. "Medicus," 56 Dovercourt Road, East Dulwich.

MANCHESTER.—Any Pharmacist desirous of obtaining the services of a young, energetic, and competent Assistant (unqualified), fully capable of managing, and including in his experience Bookkeeping, Window-dressing, Photography, Dispensing, etc., should address his inquiries, with particulars, to 201/35, Office of this Paper.

INTERNATIONAL Pharmacy, 38, qualified, requires position of confidence in London; speaks French and German fluently; for years co-proprietor of large Swiss Pharmacy; now on Continent; small capital at hand. Apply 196/320, Office of this Paper.

JUNIOR (21), unqualified, requires position in good-class Pharmacy; 4 years' experience; good references; Nottingham or Birmingham district. Replies, Glossop, 73 Wheeleys Road, Birmingham.

JUNIOR requires berth in high-class Dispensing business; disengaged when suited; London. 201/8, Office of this Paper.

KEEN, young Pharmacist desires berth offering scope; first-class Dispensing, Counter, Photographic experience; moderate salary. King, 158 Bengeo Street, Hertford.

LADY Dispenser, qualified, experienced, and some knowledge of Hospital nursing, cyclist, desires post with country Doctor; willing to assist in housekeeping. "Penelope," The Laurels, Peasmarsh, Sussex.

LADY Dispenser and Bookkeeper (qualified) desires engagement with Doctor or Institution; experienced; references. Apply A. Pearson, The Limes, Stockfield-on-Tyne.

LADY Dispenser (Hall), experienced, disengaged; Doctor or Institution preferred. Miss Rawcliffe, 2 Derwentwater Place, Moor Park, Preston, Lancs.

LADY Dispenser (Hall), Doctor's daughter, experience in Hospital and with Chemist, desires post with Doctor or in Hospital; London or suburbs. Address H. W., 120 Trinity Road, S.W. 17.

LADY desires situation; Minor qualification; seven years' first-class Dispensing, Counter, and Photographic experience; disengaged; Locum or permanency; excellent references. "Pharmacist," 51 Cranborne Road, Liverpool.

LOCUM, disengaged October 5th; Minor; country; 53; first-class references and experience; energetic; Photography, Optics; moderate terms. Dewey, Bayley's, Pharmacist, Herne Bay.

LOCUM; part-time or permanent; wide experience town and country; qualified Dispenser; competent and reliable; disengaged September 23rd. "Aspirin," 82 Dahomey Road, Streatham, S.W.

LOCUM, over 30 years' wide experience Pharmaceutical and Hospital, qualified, disengaged September 30th; moderate terms. Smith, c/o Bell & Co., 58 York Road, Waterloo, S.E. 1.

LOCUM or Manager; wide experience; highest references; well recommended; winter terms. "Beta," 74 West Hill, East Putney, London, S.W. 15.

LOCUM or permanency; unqualified; 44; good Salesman; competent Dispenser; varied experience; excellent references; disengaged. "Barbitone" (201/17), Office of this Paper.

LOCUM; highest testimonials; take entire charge; abstainer; low fees; fare one way; disengaged. "Pharmacist" (200/5), Office of this Paper.

MANAGER, qualified, or view to succession; 40; good Dispenser; abstainer; married; good references. "M.P.S.," 24 Longbrook Street, Exeter.

MANAGER or Locum, disengaged; experienced. "Chemist," 58 Anerley Road, S.E. 19.

MANAGER, qualified, experienced, now managing for large Store Chemists, would like a change; highest references. Apply 201/18, Office of this Paper.

MANAGER; qualified; long experience London and country in all branches; married; permanency; smart Window-dresser, Prescriber, and Dispenser. Particulars, with salary, to "P.C.B." (20/16), Office of this Paper.

MANAGER, Senior, or Locum, 46 (permanency preferred); town or country; qualified; reliable; energetic; highest references; £6, progressive; disengaged. 7/16D, Office of this Paper.

MANAGER or Assistant; excellent experience Counter, Dispensing, Photographic; last management 3 years; age 31. Apply 202/9, Office of this Paper.

MANCHESTER DISTRICT.—Qualified, young, energetic, six years' with high-class firm, Photographic experience, desires post as Branch Manager; state salary. Apply 197/24, Office of this Paper.

N.H.I.; QUICK, accurate; assist Counter, Photographic; town, country; Chemist or Doctor; unqualified. "Iris," 90a Pearcroft Road, Leytonstone, E. 11.

NOTTINGHAM.—Locum or Manager, or morning and evening; Prescriber. Address "Phenol" (201/29), Office of this Paper.

NURSE-DISPENSER (Hall) seeks morning post. 201/23, Office of this Paper.

PART-TIME (Minor Student), for six months, commencing October; evenings; London area. Reply, stating salary, etc., to Hiles-Smith, 10 Buckingham Road, Town Moor Avenue, Doncaster.

PART-TIME; Hampstead and district; Dispensing or Retail; unqualified; thoroughly competent and reliable; good references. "Radix," 75 High Street, Hampstead, N.W.

PERMANENCY or Locum; 40; unqualified; excellent all-round experience; now free; distance no object. "Reliable," 1 Belle Vue, Pinner, Middlesex.

QUALIFIED, Manager and Buyer, wishes change; correspondence with Chemist who wishes to retire at once, or take it easier, with view to gradual succession; part cash down. Particulars to 198/32, Office of this Paper.

QUALIFIED Assistant at liberty to supply vacancy in high-class Retail; age 22, with good experience and well recommended; London or suburbs preferred, but not essential. Particulars to 198/34, Office of this Paper.

QUALIFIED, elderly, desires easy berth, in- or out-doors; London and country experience; Manager or otherwise; small salary; whole or part time; good Prescriber, Dispenser, etc.; interview arranged. Apply 198/37, Office of this Paper.

QUALIFIED, 22, desires position in London; good all-round experience; disengaged. W. Reeves, 51 Fairfax Road, N.W. 6. Tel.: 1703 Hampstead.

QUALIFIED, 25, seeks situation in good Dispensing business; experienced in Counter work; good references. "Statim," 28 Neptune Street, Tipton, Staffs.

QUALIFIED man desires permanency, Manager or Assistant; Locum accepted meantime. Chambers, 2 Noel Street, Kimberley, Notts.

QUALIFIED, 24, thoroughly reliable, desires post; permanency; exceptional references as to character and abilities. Full particulars in first letter to Fox, 32 Alexandra Road, Balby, Doncaster.

QUALIFIED, 32, desires permanency; reliable and experienced; excellent referenes. V. Kirk, 41 Russell Street, Nottingham.

QUALIFIED Locum or Manager; 20 years' experience every class of business, West End, Prescribing, Agricultural, Continental, and Colonial; town or country; disengaged 25th; highest references. "Pharmacist," Le Châlet, Aldwick Road, Bognor.

QUALIFIED; 25; Retail, Dispensing, and Photographic experience; reasonable terms. J. Wells, 1 New Road East, Portsmouth, Hants.

QUALIFIED; experienced; fair French. "M.P.S.," 86 Replingham Road, S.W. 18.

QUALIFIED lady requires post; six years' experience high-class Dispensing, Counter, and Photography. Rugg, 2 Jeffreys Road, Clapham.

QUALIFIED Manager or relief work; reliable, and good references; long and varied experience; disengaged. "Adsum," 28 Melrose Avenue, Cricklewood.

QUALIFIED, 51, disengaged, desires situation; varied all-round experience, town and country; active and reliable; good references; moderate salary to commence. "Chemist," 242 Osmaston Road, Derby.

QUALIFIED lady (21) desires berth; good, varied experience; Bell Scholar; disengaged; excellent references. Miss Metcalfe, Shirley, Birmingham.

QUALIFIED (23), 7 years' Retail and Hospital experience, Photography and Surgical Instruments, desires situation; highest references; disengaged. 200/3, Office of this Paper.

REQUIRED (immediately), by young lady, post as Dispenser-Bookkeeper with Doctor; London; 8 years' experience; good references. Apply "C.," c/o Infant Welfare Centre, 66 York Road, S.E. 1.

SENIOR, qualified, with every possible experience of Retail trade (English, Indian, Colonial), desires engagement in West of England. A. F. Collis, 3 Margaret's Buildings, Bath.

SMART Junior seeks post; 4½ years' experience; Counter, Dispensing, Photography; free October; age 21; height 5 ft. 9 in. Apply 199/32, Office of this Paper.

UNQUALIFIED (lady, 25); 5½ years' experience Dispensing, Counter, three as apprentice; excellent references. "Dispenser," c/o 73 Riches Street, Wolverhampton.

UNREGISTERED; 18 years' experience, Manager, Confidential, Counterman, Window Expert; trustworthy; excellent references; abstainer; 25 miles radius Warrington; £4. Apply 201/14, Office of this Paper.

UNQUALIFIED; tall; excellent experience; first-class Salesman; disengaged; London; or Locum. Chiretta (201/3), Office of this Paper.

UNQUALIFIED ASSISTANT, owing to exceptional circumstances, requires change, either as Manager or Assistant; used to Dispensing and busy Retail; first-rate references; abstainer, married, age 47; accustomed to taking charge; reasonable salary for good services. Apply 199/1, Office of this Paper.

UNQUALIFIED.—Manage or assist; experienced, reliable; excellent references; good Salesman and Prescriber; free October 4; age 38; Locum entertained; reside on premises if desired. "Worker" (200/27), Office of this Paper.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A FIRST-CLASS Representative, with excellent connection in South London and South-East Coast, desires good position with firm of repute; references and proof of ability. Apply 196/36, Office of this Paper.

A QUALIFIED Chemist, possessing energy and initiative, requires position with Wholesale Manufacturing Chemists in London. 200/37, Office of this Paper.

ADVERTISER, travelling North of Ireland, would carry Medicinal Tablets or other small samples on commission basis. Apply "Tab." (195/25), Office of this Paper.

ADVERTISER, with excellent connection with Chemists in London, South and West of England, is open to carry another line. Apply P.C.B. 19/24, Office of this Paper.

ADVERTISER, 27, calling upon Chemists, Stores, and Chemists' Sundriesmen in London and suburbs, is open to carry Toilet Requisites, etc., upon commission. Apply P.C.B. 20/7, Office of this Paper.

BUYER, aged 34, keen, 12 years' buying experience Surgical Instruments and supplies, Drugs and Chemicals, Druggists' sundries, Toilet requisites, office supplies, etc., desires position, preferably merchant's office; excellent references. Write "W." (196/35), Office of this Paper.

CLERICAL re-engagement desired by energetic young man (24); present engaged on export staff of large Manufacturing Chemist; well experienced in home and foreign markets, and capable of dealing with general inquiries and correspondence. Apply 199/4, Office of this Paper.

EXPERIENCED Tablet- and Pill-Maker requires situation; London district. G. N., 29 Herbert Street, Malden Road, N.W.

EXPERIENCED Traveller, large personal connection, Doctors, Chemists, and Stores, London and provinces; disengaged. Please address 200/39, Office of this Paper.

DISPENSER, unqualified, or would accept post as Packer or Storekeeper in Wholesale Druggists; considerable experience of each; London district preferred. Particulars, salary, etc., to 199/31, Office of this Paper.

PERFUMER, with considerable experience in the manufacture of all kinds of Toilet Articles and Packed Goods, desires position; suit established business or one just commencing; whole or part time; energetic and reliable. 201/2, Office of this Paper.

REPRESENTATIVE, calling on Chemists and Grocers, Monmouthshire and South Wales, is open to carry extra non-competing lines on good commission and part expenses. Apply "Storax" (197/25), Office of this Paper.

REPRESENTATIVE of high-standing firm desires change; districts covered Midland, Eastern, Western Counties, but London or South desirable. Apply P.C.B. 19/27, Office of this Paper.

REPRESENTATIVE for good-class Drug or Druggists' Sundries house; London, provinces, or abroad; qualified Chemist, with twenty years' Retail experience; good appearance and address; ready to start at once, if necessary. Write to 4/590, Office of this Paper.

TRAVELLER, with first-class Chemists' connection Midland and Northern Counties, desires to represent good house; Sundries and Toilet Preparations. Apply 199/14, Office of this Paper.

UNQUALIFIED, 27, single, seeks position as Traveller; tall, energetic; well recommended. Apply "D.W." (198/30), Office of this Paper.

WANTED, position in Wholesale; any capacity; well educated; 10 years' Retail experience; energetic and smart. Apply 201/6, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

GENTLEMAN requires berth afloat, Continent or abroad; previous Parisian experience. Turner, 97 Strand Street, Douglas, Isle of Man.

SCHOOL OF PHARMACY.

THE TUTORIAL COLLEGE, LIMITED.

THE new Pharmacy Session of the Tutorial College will begin on Monday, 4th October, *for students who were registered as students prior to 1st January, 1920.* A full 9 months' course of instruction will be given in all the subjects for the Minor Examination of the Pharmaceutical Society. The College trained 60 students for the July Examination, and since then the accommodation has been doubled. It is the best staffed and best equipped Pharmacy School, and the Chemistry and Pharmacy Laboratories are unrivalled in any private institution in the country. There is only a limited number of places, and immediate enrolment is necessary to secure one.

J. S. LEISHMAN, M.A., B.L., B.D., *Principal*, 30 Elmbank Crescent, GLASGOW.

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Best Offers wanted for 1 cwt. Barbitone, B.P.; 2 cwt. Urea, white cryst., M.P. 130°C.; 1 ton Salicylic Acid, B.P.; 2 tons Carbon Tetrachloride; 5 tons Precipitated Manganese Dioxide; 1½ tons Commercial Manganate of Soda; about 90 gallons Permanganate of Soda solution, 22%.

HOLLINWOOD CHEMICAL CO. LTD., HOLLINWOOD (Lancs).

SHOWCARDS BY F. MERTEN, The EXPERT.

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FOR A SMALL OUTLAY you can also prove it and reap the benefit.

KINDLY LET ME QUOTE FOR ALL CARDS YOU REQUIRE.

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MISCELLANEOUS.

10s. for 80 words; 1s. for every additional 10 words or less.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.—Shares for Sale (free of commission, subject): 170 Atkinson Ord., 42s.; 60 Evans Lescher Pf., 15s. 7½d., c.d.; £1,000 Dental Manufacturing 4% Deb., £52½ per £100 stock, half-year's interest due 1st January; 1,000 Genatosan 1s. Ord., 1s. 10d.; 290 Aplin & Barrett 6% Pf., 15s. 10½d.; 500 Farrow's Bank, 10s. paid, 9s. 6d.; 37 W. J. Bush Pf., 64s. 6d., o.d.—Shares Wanted (subject): Allenbury and Wright Layman Pf.; Parkes Drug Pf.—Bankers, London County and Westminster.

SHOP FITTINGS.—10′ 0″ Mahogany Serving Counter with Glass Cases in front; 6′ 0″ bent plate-glass Counter Showcase; 8′ 0″ Wall Showcase; several Drug Fittings and Dispensing Screens, Silent Salesman Showcases and Counters; every size. Write, stating wants, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

CAMPHOR, job lot, bargain; about 70 tablets to the lb.; 5 lb. lots, 10s. lb.; also slightly discoloured lot, suitable for preparations, 5 lb. lots, 8s. 6d. lb.; 200 lb. in all; C.O.D. Delivery free in about a month. Barrett, 92 Radstock Road, Reading.

CHEAP.—3½ cwt. French Grey Filter Paper (39 in. diameter); 1 lb. Vanillin (cryst.); ½ lb. Coumarin (cryst.); 10 tubes pure Ethyl Chloride, 50 c.c. (Hedley); 5 cwt. Fuller's Earth Powder; 2 ton racks for Bottle Storage; 6 large Deal Bins; what offers? Mellins, 50 Great Garden Street, E. 1.

E.I. SANTAL OIL B.P.; ¾ cwt. for Disposal to best bidder; whole or part. 4/61B, Office of this Paper.

FOR Sale, Rotary Tablet Machines; 1 × Buckley Double-feed Express, 1 × Sudworth Single-feed, 2 × Single-feed Express Machines; can be seen by appointment; London, E. Apply 20/80, Office of this Paper.

FOR Disposal, 500 Neo Salvarsan M.L. & B., different strengths; 900 grammes Novocain, original boxes; 750 grammes Pyramidon, original boxes; 1½ kilos. Knorr's Antipyrin; offers wanted. Dodds' Drug Stores, 70 Tottenham Court Road, W.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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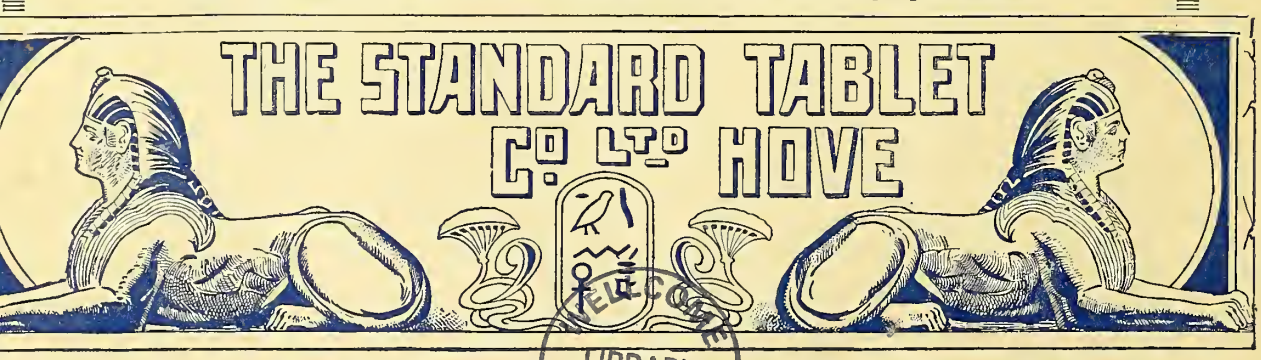

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